

Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

(42512)  
Commodity : PRIME HOT ROLLED STEEL PLATE

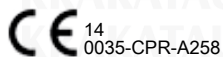
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test	U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
10x2001x6000	PK95877101-7105	5	4,715	SK80072	T	420	544	30	1: 143		L	0.1523	0.204	1.538	0.0125	0.0043	0.012	0.006	0.011	0.002	57	0.026	0.0124	0.005
									2: 153			P	0.1576	0.194	1.519	0.0121	0.0037	0.012	0.006	0.012	0.002	44	0.027	0.0122
10x2001x6000	PK95877201-7205	5	4,715	SK80072	T	415	542	33	1: 150		L	0.1523	0.204	1.538	0.0125	0.0043	0.012	0.006	0.011	0.002	57	0.026	0.0124	0.005
									2: 124			P	0.1559	0.194	1.515	0.0121	0.0037	0.012	0.006	0.012	0.002	50	0.027	0.0123
10x2001x6000	PK95877301-7305	5	4,715	SK80072	T	407	540	32	1: 150		L	0.1523	0.204	1.538	0.0125	0.0043	0.012	0.006	0.011	0.002	57	0.026	0.0124	0.005
									2: 120			P	0.1569	0.192	1.506	0.0125	0.0042	0.011	0.006	0.011	0.002	47	0.026	0.0119
10x2001x6000	PK95876901-6905	5	4,715	SK80073	T	441	563	29	1: 104		L	0.1571	0.190	1.527	0.0132	0.0040	0.012	0.005	0.015	0.002	35	0.027	0.0122	0.005
									2: 153			P	0.1557	0.194	1.538	0.0131	0.0034	0.012	0.005	0.015	0.002	36	0.027	0.0127
10x2001x6000	PK95877001-7005	5	4,715	SK80073	T	431	556	32	1: 120		L	0.1571	0.190	1.527	0.0132	0.0040	0.012	0.005	0.015	0.002	35	0.027	0.0122	0.005
									2: 121			P	0.1557	0.194	1.538	0.0131	0.0034	0.012	0.005	0.015	0.002	36	0.027	0.0127
10x2001x6000	PK95876601-6603	3	2,829	SK80077	T	430	545	30	1: 178		L	0.1601	0.195	1.527	0.0109	0.0034	0.014	0.007	0.017	0.002	34	0.029	0.0127	0.005
									2: 172			P	0.1582	0.193	1.500	0.0107	0.0033	0.014	0.007	0.016	0.002	32	0.029	0.0125
10x2001x6000	PK95876701	1	943	SK80077	T	430	545	30	1: 178		L	0.1601	0.195	1.527	0.0109	0.0034	0.014	0.007	0.017	0.002	34	0.029	0.0127	0.005
									2: 172			P	0.1582	0.193	1.500	0.0107	0.0033	0.014	0.007	0.016	0.002	32	0.029	0.0125

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Sub-Size : 10 mmX7.5 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

KP001 Choi Jong Seog



Order No. : Q8S1025879

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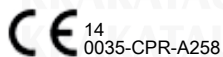
Commodity : PRIME HOT ROLLED STEEL PLATE  
(42512)

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
PK95877101-7105	L	0.040	0.041	0.41
	P	0.038	0.038	
PK95877201-7205	L	0.040	0.041	0.41
	P	0.039	0.039	
PK95877301-7305	L	0.040	0.041	0.41
	P	0.038	0.039	
PK95876901-6905	L	0.035	0.036	0.42
	P	0.035	0.036	
PK95877001-7005	L	0.035	0.036	0.42
	P	0.035	0.036	
PK95876601-6603	L	0.038	0.038	0.42
	P	0.036	0.036	
PK95876701	L	0.038	0.038	0.42
	P	0.036	0.036	

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Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)	U.S.T		C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
10x2001x6000	PK96267602-7605	4	3,772	SK80077	T	430	545	30	1: 178	L	0.1601	0.195	1.527	0.0109	0.0034	0.014	0.007	0.017	0.002	34	0.029	0.0127	0.005	
									2: 172		P	0.1582	0.193	1.500	0.0107	0.0033	0.014	0.007	0.016	0.002	32	0.029	0.0125	0.004
10x2001x6000	PK96375701	1	943	SK80371	T	450	564	29	1: 142	L	0.1576	0.195	1.547	0.0129	0.0034	0.012	0.006	0.014	0.002	35	0.029	0.0130	0.005	
									2: 51		P	0.1579	0.192	1.559	0.0128	0.0031	0.012	0.006	0.013	0.002	37	0.029	0.0130	0.005
10x2001x6000	PK96375801	1	943	SK80371	T	450	564	29	1: 142	L	0.1576	0.195	1.547	0.0129	0.0034	0.012	0.006	0.014	0.002	35	0.029	0.0130	0.005	
									2: 51		P	0.1579	0.192	1.559	0.0128	0.0031	0.012	0.006	0.013	0.002	37	0.029	0.0130	0.005
10x2001x6000	PK96375901-5907	7	6,601	SK80371	T	450	564	29	1: 142	L	0.1576	0.195	1.547	0.0129	0.0034	0.012	0.006	0.014	0.002	35	0.029	0.0130	0.005	
									2: 51		P	0.1579	0.192	1.559	0.0128	0.0031	0.012	0.006	0.013	0.002	37	0.029	0.0130	0.005
*** Sub Total (010) ***		42	39,606 (kg)								CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5													
*** Heat Treatment ==> Controlled rolling ***																								
10x2450x12000	PK96061201-1203	3	6,924	SK80233	T	417	537	30	1: 207	L	0.1529	0.193	1.517	0.0096	0.0033	0.012	0.008	0.017	0.003	28	0.028	0.0118	0.005	
									2: 170		P	0.1527	0.194	1.519	0.0094	0.0047	0.011	0.008	0.017	0.002	42	0.026	0.0116	0.004
10x2450x12000	PK96061301-1303	3	6,924	SK80233	T	417	537	30	1: 207	L	0.1529	0.193	1.517	0.0096	0.0033	0.012	0.008	0.017	0.003	28	0.028	0.0118	0.005	
									2: 170		P	0.1527	0.194	1.519	0.0094	0.0047	0.011	0.008	0.017	0.002	42	0.026	0.0116	0.004

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Sub-Size : 10 mmX7.5 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

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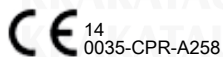
Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96267602-7605	L	0.038	0.038	0.42
	P	0.036	0.036	
PK96375701	L	0.040	0.041	0.42
	P	0.039	0.040	
PK96375801	L	0.040	0.041	0.42
	P	0.039	0.040	
PK96375901-5907	L	0.040	0.041	0.42
	P	0.039	0.040	
*** Sub Total (010) ***			42	39,606 (kg)
CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5				
PK96061201-1203	L	0.041	0.042	0.41
	P	0.041	0.041	
PK96061301-1303	L	0.041	0.042	0.41
	P	0.041	0.041	

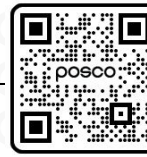
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Customer : .

Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)	U.S.T		C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
10x2450x12000	PK96061401-1403	3	6,924	SK80233	T	417	537	30	1: 207 2: 170 3: 178 A: 185		L	0.1529	0.193	1.517	0.0096	0.0033	0.012	0.008	0.017	0.003	28	0.028	0.0118	0.005
											P	0.1527	0.194	1.519	0.0094	0.0047	0.011	0.008	0.017	0.002	42	0.026	0.0116	0.004
*** Sub Total (020) ***		9	20,772 (kg)																					
*** Heat Treatment ==> Controlled rolling ***																								
CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5																								
10x2500x8000	PK96060703	1	1,570	SK80233	T	417	537	30	1: 207 2: 170 3: 178 A: 185		L	0.1529	0.193	1.517	0.0096	0.0033	0.012	0.008	0.017	0.003	28	0.028	0.0118	0.005
											P	0.1527	0.194	1.519	0.0094	0.0047	0.011	0.008	0.017	0.002	42	0.026	0.0116	0.004
10x2500x8000	PK96060501-0505	5	7,850	SK80234	T	429	546	29	1: 154 2: 166 3: 85 A: 135		L	0.1515	0.205	1.545	0.0107	0.0030	0.013	0.006	0.018	0.002	27	0.028	0.0122	0.005
											P	0.1549	0.204	1.504	0.0099	0.0029	0.012	0.007	0.017	0.002	38	0.027	0.0120	0.005
10x2500x8000	PK96060601-0605	5	7,850	SK80234	T	429	546	29	1: 154 2: 166 3: 85 A: 135		L	0.1515	0.205	1.545	0.0107	0.0030	0.013	0.006	0.018	0.002	27	0.028	0.0122	0.005
											P	0.1549	0.204	1.504	0.0099	0.0029	0.012	0.007	0.017	0.002	38	0.027	0.0120	0.005
10x2500x8000	PK96060801-0805	5	7,850	SK80234	T	429	546	29	1: 154 2: 166 3: 85 A: 135		L	0.1515	0.205	1.545	0.0107	0.0030	0.013	0.006	0.018	0.002	27	0.028	0.0122	0.005
											P	0.1549	0.204	1.504	0.0099	0.0029	0.012	0.007	0.017	0.002	38	0.027	0.0120	0.005
*** Sub Total (030) ***		16	25,120 (kg)																					
*** Heat Treatment ==> Controlled rolling ***																								
CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5																								

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Sub-Size : 10 mmX7.5 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
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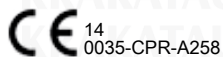
Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
PK96061401-1403	L	0.041	0.042	0.41
	P	0.041	0.041	
*** Sub Total (020) ***			9	20,772 (kg)
CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5				
PK96060703	L	0.041	0.042	0.41
	P	0.041	0.041	
PK96060501-0505	L	0.045	0.046	0.41
	P	0.043	0.044	
PK96060601-0605	L	0.045	0.046	0.41
	P	0.043	0.044	
PK96060801-0805	L	0.045	0.046	0.41
	P	0.043	0.044	
*** Sub Total (030) ***			16	25,120 (kg)
CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5				

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
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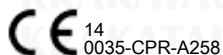
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Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)	U.S.T		C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
12x2001x6000	PK96166801	1	1,131	SK80233	T	410	532	31	1: 263 2: 261 3: 241 A: 255	L P	0.1529	0.193	1.517	0.0096	0.0033	0.012	0.008	0.017	0.003	28	0.028	0.0118	0.005	
											0.1527	0.194	1.519	0.0094	0.0047	0.011	0.008	0.017	0.002	42	0.026	0.0116	0.004	
12x2001x6000	PK96166901	1	1,131	SK80233	T	410	532	31	1: 263 2: 261 3: 241 A: 255	L P	0.1529	0.193	1.517	0.0096	0.0033	0.012	0.008	0.017	0.003	28	0.028	0.0118	0.005	
											0.1527	0.194	1.519	0.0094	0.0047	0.011	0.008	0.017	0.002	42	0.026	0.0116	0.004	
12x2001x6000	PK96167001	1	1,131	SK80233	T	410	532	31	1: 263 2: 261 3: 241 A: 255	L P	0.1529	0.193	1.517	0.0096	0.0033	0.012	0.008	0.017	0.003	28	0.028	0.0118	0.005	
											0.1527	0.194	1.519	0.0094	0.0047	0.011	0.008	0.017	0.002	42	0.026	0.0116	0.004	
12x2001x6000	PK96167201	1	1,131	SK80233	T	410	532	31	1: 263 2: 261 3: 241 A: 255	L P	0.1529	0.193	1.517	0.0096	0.0033	0.012	0.008	0.017	0.003	28	0.028	0.0118	0.005	
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12x2001x6000	PK96166701	1	1,131	SK80233	T	410	533	32	1: 265 2: 259 3: 218 A: 247	L P	0.1529	0.193	1.517	0.0096	0.0033	0.012	0.008	0.017	0.003	28	0.028	0.0118	0.005	
											0.1527	0.194	1.519	0.0094	0.0047	0.011	0.008	0.017	0.002	42	0.026	0.0116	0.004	
12x2001x6000	PK96167101	1	1,131	SK80233	T	410	533	32	1: 265 2: 259 3: 218 A: 247	L P	0.1529	0.193	1.517	0.0096	0.0033	0.012	0.008	0.017	0.003	28	0.028	0.0118	0.005	
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\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

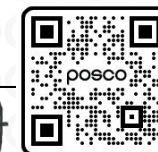
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Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

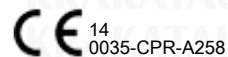
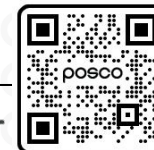
Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96166801	L	0.041	0.042	0.41
	P	0.041	0.041	
PK96166901	L	0.041	0.042	0.41
	P	0.041	0.041	
PK96167001	L	0.041	0.042	0.41
	P	0.041	0.041	
PK96167201	L	0.041	0.042	0.41
	P	0.041	0.041	
PK96167301	L	0.041	0.042	0.41
	P	0.041	0.041	
PK96166701	L	0.041	0.042	0.41
	P	0.041	0.041	
PK96167101	L	0.041	0.042	0.41
	P	0.041	0.041	

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
 We hereby certify that the material herein has been made in accordance with PED2014/68/EU  
 and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

**KP001** *Choi Jong Seog*



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE

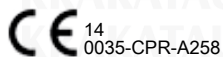
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		Division	Chemical Composition													
						YP	TS	EL	V Notch -20 °C Energy (Joule)	U.S.T		C	Si	Mn	P	S	Cr	Ni	Cu	Mo	N	Nb	Ti	V	
						(MPa)	(%)	(%)				(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
12x2001x6000	PK96166201	1	1,131	SK80234	T	409	540	31	1: 82 2: 253 3: 239 A: 191		L P	0.1515 0.1549	0.205 0.204	1.545 1.504	0.0107 0.0099	0.0030 0.0029	0.013 0.012	0.006 0.007	0.018 0.017	0.002 0.002	27 38	0.028 0.027	0.0122 0.0120	0.005 0.005	
12x2001x6000	PK96166301	1	1,131	SK80234	T	409	540	31	1: 82 2: 253 3: 239 A: 191		L P	0.1515 0.1549	0.205 0.204	1.545 1.504	0.0107 0.0099	0.0030 0.0029	0.013 0.012	0.006 0.007	0.018 0.017	0.002 0.002	27 38	0.028 0.027	0.0122 0.0120	0.005 0.005	
12x2001x6000	PK96166501	1	1,131	SK80234	T	409	540	31	1: 82 2: 253 3: 239 A: 191		L P	0.1515 0.1549	0.205 0.204	1.545 1.504	0.0107 0.0099	0.0030 0.0029	0.013 0.012	0.006 0.007	0.018 0.017	0.002 0.002	27 38	0.028 0.027	0.0122 0.0120	0.005 0.005	
12x2001x6000	PK96166601	1	1,131	SK80234	T	409	540	31	1: 82 2: 253 3: 239 A: 191		L P	0.1515 0.1549	0.205 0.204	1.545 1.504	0.0107 0.0099	0.0030 0.0029	0.013 0.012	0.006 0.007	0.018 0.017	0.002 0.002	27 38	0.028 0.027	0.0122 0.0120	0.005 0.005	
12x2001x6000	PK96166401	1	1,131	SK80234	T	422	537	29	1: 263 2: 166 3: 275 A: 235		L P	0.1515 0.1549	0.205 0.204	1.545 1.504	0.0107 0.0099	0.0030 0.0029	0.013 0.012	0.006 0.007	0.018 0.017	0.002 0.002	27 38	0.028 0.027	0.0122 0.0120	0.005 0.005	
12x2001x6000	PK96167401	1	1,131	SK80238	T	420	549	29	1: 248 2: 287 3: 275 A: 270		L P	0.1588 0.1553	0.205 0.203	1.551 1.538	0.0133 0.0131	0.0041 0.0041	0.014 0.013	0.006 0.006	0.015 0.015	0.003 0.002	31 32	0.029 0.027	0.0128 0.0127	0.005 0.005	
12x2001x6000	PK96167501	1	1,131	SK80238	T	420	549	29	1: 248 2: 287 3: 275 A: 270		L P	0.1588 0.1553	0.205 0.203	1.551 1.538	0.0133 0.0131	0.0041 0.0041	0.014 0.013	0.006 0.006	0.015 0.015	0.003 0.002	31 32	0.029 0.027	0.0128 0.0127	0.005 0.005	

- \* Position - T : Top, M : Middle, B : Bottom
- \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point
- \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm
- \* Division - L : Ladle Analysis, P : Products Analysis
- \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

KP001

Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

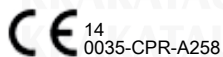
Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96166201	L	0.045	0.046	0.41
	P	0.043	0.044	
PK96166301	L	0.045	0.046	0.41
	P	0.043	0.044	
PK96166501	L	0.045	0.046	0.41
	P	0.043	0.044	
PK96166601	L	0.045	0.046	0.41
	P	0.043	0.044	
PK96166401	L	0.045	0.046	0.41
	P	0.043	0.044	
PK96167401	L	0.048	0.048	0.42
	P	0.046	0.047	
PK96167501	L	0.048	0.048	0.42
	P	0.046	0.047	

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
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 and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

**KP001** *Choi Jong Seog*

Order No. : Q8S1025879

PO No. : D4B0269

Supplier : SUNGJIN CO., LTD.

(42512)  
Commodity : PRIME HOT ROLLED STEEL PLATE

Customer : .

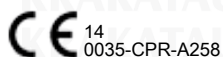
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		Division	Chemical Composition													
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)	U.S.T		C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)	
12x2001x6000	PK96167701	1	1,131	SK80238	T	420	549	29	1: 248	L	0.1588	0.205	1.551	0.0133	0.0041	0.014	0.006	0.015	0.003	31	0.029	0.0128	0.005		
									2: 287		P	0.1553	0.203	1.538	0.0131	0.0041	0.013	0.006	0.015	0.002	32	0.027	0.0127	0.005	
12x2001x6000	PK96167901	1	1,131	SK80238	T	420	549	29	1: 248	L	0.1588	0.205	1.551	0.0133	0.0041	0.014	0.006	0.015	0.003	31	0.029	0.0128	0.005		
									2: 287		P	0.1553	0.203	1.538	0.0131	0.0041	0.013	0.006	0.015	0.002	32	0.027	0.0127	0.005	
12x2001x6000	PK96307401	1	1,131	SK80238	T	420	549	29	1: 248	L	0.1588	0.205	1.551	0.0133	0.0041	0.014	0.006	0.015	0.003	31	0.029	0.0128	0.005		
									2: 287		P	0.1553	0.203	1.538	0.0131	0.0041	0.013	0.006	0.015	0.002	32	0.027	0.0127	0.005	
12x2001x6000	PK96167601	1	1,131	SK80238	T	416	543	30	1: 213	L	0.1588	0.205	1.551	0.0133	0.0041	0.014	0.006	0.015	0.003	31	0.029	0.0128	0.005		
									2: 170		P	0.1553	0.203	1.538	0.0131	0.0041	0.013	0.006	0.015	0.002	32	0.027	0.0127	0.005	
*** Sub Total (040) ***		18	20,358 (kg)																						
												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5													
*** Heat Treatment ==> Controlled rolling ***																									
14x2500x9000	PK95866401-6404	4	9,892	SK80007	T	407	534	31	1: 229	L	0.1590	0.187	1.559	0.0109	0.0032	0.013	0.006	0.012	0.002	32	0.029	0.0118	0.005		
									2: 263		P	0.1592	0.182	1.504	0.0097	0.0034	0.013	0.005	0.011	0.002	44	0.026	0.0110	0.004	
14x2500x9000	PK96059801-9803	3	7,419	SK80237	T	411	535	30	1: 174	L	0.1534	0.205	1.537	0.0110	0.0034	0.013	0.006	0.015	0.002	33	0.030	0.0126	0.005		
									2: 81		P	0.1598	0.207	1.520	0.0108	0.0027	0.014	0.006	0.014	0.002	38	0.027	0.0122	0.005	

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

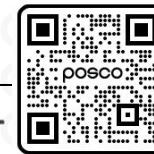
This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
 We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

KP001 Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

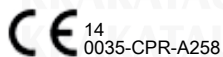
Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96167701	L	0.048	0.048	0.42
	P	0.046	0.047	
PK96167901	L	0.048	0.048	0.42
	P	0.046	0.047	
PK96307401	L	0.048	0.048	0.42
	P	0.046	0.047	
PK96167601	L	0.048	0.048	0.42
	P	0.046	0.047	
*** Sub Total (040) ***			18	20,358 (kg)
CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5				
PK95866401-6404	L	0.042	0.044	0.42
	P	0.042	0.042	
PK96059801-9803	L	0.039	0.040	0.41
	P	0.036	0.038	

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
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Surveyor To :

**KP001** Choi Jong Seog



Order No. : Q8S1025879

PO No. : D4B0269

Supplier : SUNGJIN CO., LTD.

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Customer : .

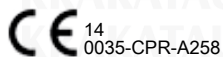
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test	U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
14x2500x9000	PK96059901-9903	3	7,419	SK80237	T	411	535	30	1: 174		L	0.1534	0.205	1.537	0.0110	0.0034	0.013	0.006	0.015	0.002	33	0.030	0.0126	0.005
									2: 81			P	0.1598	0.207	1.520	0.0108	0.0027	0.014	0.006	0.014	0.002	38	0.027	0.0122
14x2500x9000	PK96060001-0003	3	7,419	SK80237	T	411	535	30	3: 173		L	0.1534	0.205	1.537	0.0110	0.0034	0.013	0.006	0.015	0.002	33	0.030	0.0126	0.005
									A: 143			P	0.1598	0.207	1.520	0.0108	0.0027	0.014	0.006	0.014	0.002	38	0.027	0.0122
*** Sub Total (050) ***		13	32,149 (kg)																					
*** Heat Treatment ==> Controlled rolling ***																			CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5					
15.01x2001x6000	PK96163104	1	1,415	SK80229	T	407	534	33	1: 221		L	0.1570	0.199	1.535	0.0114	0.0043	0.012	0.006	0.018	0.002	30	0.029	0.0120	0.005
									2: 243			P	0.1532	0.200	1.530	0.0110	0.0041	0.012	0.006	0.017	0.002	43	0.026	0.0116
15.01x2001x6000	PK96163204	1	1,415	SK80233	T	406	533	32	3: 155		L	0.1529	0.193	1.517	0.0096	0.0033	0.012	0.008	0.017	0.003	28	0.028	0.0118	0.005
									A: 206			P	0.1527	0.194	1.519	0.0094	0.0047	0.011	0.008	0.017	0.002	42	0.026	0.0116
15.01x2001x6000	PK96163601-3605	5	7,075	SK80236	T	406	530	28	1: 257		L	0.1572	0.202	1.525	0.0109	0.0032	0.012	0.006	0.014	0.002	26	0.028	0.0125	0.005
									2: 215			P	0.1587	0.201	1.518	0.0108	0.0033	0.012	0.005	0.013	0.002	34	0.027	0.0126
15.01x2001x6000	PK96163701-3705	5	7,075	SK80236	T	406	530	28	3: 245		L	0.1572	0.202	1.525	0.0109	0.0032	0.012	0.006	0.014	0.002	26	0.028	0.0125	0.005
									A: 239			P	0.1587	0.201	1.518	0.0108	0.0033	0.012	0.005	0.013	0.002	34	0.027	0.0126

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
 We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

KP001 Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

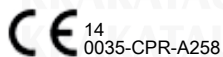
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
PK96059901-9903	L	0.039	0.040	0.41
	P	0.036	0.038	
PK96060001-0003	L	0.039	0.040	0.41
	P	0.036	0.038	
*** Sub Total (050) ***			13	32,149 (kg)
PK96163104	L	0.040	0.045	0.42
	P	0.041	0.043	
PK96163204	L	0.041	0.042	0.41
	P	0.041	0.041	
PK96163601-3605	L	0.042	0.044	0.42
	P	0.041	0.042	
PK96163701-3705	L	0.042	0.044	0.42
	P	0.041	0.042	

$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

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Surveyor To :

**KP001** *Choi Jong Seog*



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

(42512)  
Commodity : PRIME HOT ROLLED STEEL PLATE

Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test	U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
15.01x2001x6000	PK96163801-3805	5	7,075	SK80236	T	406	530	28	1: 272 2: 200 3: 125 A: 199		L P	0.1572 0.1587	0.202 0.201	1.525 1.518	0.0109 0.0108	0.0032 0.0033	0.012 0.012	0.006 0.005	0.014 0.013	0.002 0.002	26 34	0.028 0.027	0.0125 0.0126	0.005 0.004
*** Sub Total (060) ***		17	24,055 (kg)	CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5																				
*** Heat Treatment ==> Controlled rolling ***																								
15.01x2500x6000	PK96270401-0405	5	8,835	SK80297	T	412	541	29	1: 180 2: 198 3: 86 A: 155		L P	0.1536 0.1548	0.205 0.207	1.552 1.547	0.0110 0.0114	0.0028 0.0031	0.010 0.009	0.002 0.003	0.006 0.005	0.001 0.001	37 34	0.027 0.027	0.0134 0.0133	0.005 0.005
*** Sub Total (070) ***		5	8,835 (kg)	CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5																				
*** Heat Treatment ==> Controlled rolling ***																								
16x2001x6000	PK96162501-2506	6	9,048	SK80235	T	415	530	30	1: 195 2: 241 3: 252 A: 229		L P	0.1510 0.1505	0.196 0.199	1.548 1.537	0.0119 0.0121	0.0029 0.0033	0.014 0.013	0.006 0.006	0.018 0.017	0.002 0.002	26 40	0.030 0.028	0.0123 0.0130	0.005 0.005
16x2001x6000	PK96162601-2606	6	9,048	SK80235	T	415	530	30	1: 195 2: 241 3: 252 A: 229		L P	0.1510 0.1505	0.196 0.199	1.548 1.537	0.0119 0.0121	0.0029 0.0033	0.014 0.013	0.006 0.006	0.018 0.017	0.002 0.002	26 40	0.030 0.028	0.0123 0.0130	0.005 0.005
16x2001x6000	PK96163301-3306	6	9,048	SK80236	T	408	535	29	1: 159 2: 186 3: 207 A: 184		L P	0.1572 0.1587	0.202 0.201	1.525 1.518	0.0109 0.0108	0.0032 0.0033	0.012 0.012	0.006 0.005	0.014 0.013	0.002 0.002	26 34	0.028 0.027	0.0125 0.0126	0.005 0.004

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

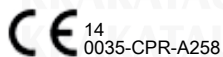
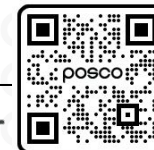
Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96163801-3805	L	0.042	0.044	0.42
	P	0.041	0.042	
*** Sub Total (060) ***			17	24,055 (kg)
CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5				
PK96270401-0405	L	0.053	0.054	0.42
	P	0.050	0.050	
*** Sub Total (070) ***			5	8,835 (kg)
CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5				
PK96162501-2506	L	0.037	0.037	0.41
	P	0.039	0.040	
PK96162601-2606	L	0.037	0.037	0.41
	P	0.039	0.040	
PK96163301-3306	L	0.042	0.044	0.42
	P	0.041	0.042	

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
 We hereby certify that the material herein has been made in accordance with PED2014/68/EU  
 and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

**KP001** Choi Jong Seog





Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

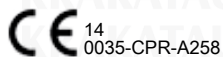
Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96163401-3402	L	0.042	0.044	0.42
	P	0.041	0.042	
PK96163501-3506	L	0.042	0.044	0.42
	P	0.041	0.042	
*** Sub Total (090) ***			26	39,208 (kg)
$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$				
PK95875701-5707	L	0.044	0.045	0.42
	P	0.041	0.042	
PK95875601-5607	L	0.044	0.045	0.42
	P	0.041	0.042	
PK96159001-9005	L	0.039	0.040	0.41
	P	0.036	0.038	
PK96159301-9304	L	0.039	0.040	0.41
	P	0.036	0.038	

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Surveyor To :

**KP001** *Choi Jong Seog*



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE

Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)				C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
20x2001x6000	PK96159901-9905	5	9,430	SK80237	T	403	531	29	1: 202			L	0.1534	0.205	1.537	0.0110	0.0034	0.013	0.006	0.015	0.002	33	0.030	0.0126	0.005
									2: 208			P	0.1598	0.207	1.520	0.0108	0.0027	0.014	0.006	0.014	0.002	38	0.027	0.0122	0.005
20x2001x6000	PK96160001-0005	5	9,430	SK80237	T	403	531	29	1: 202			L	0.1534	0.205	1.537	0.0110	0.0034	0.013	0.006	0.015	0.002	33	0.030	0.0126	0.005
									2: 208			P	0.1598	0.207	1.520	0.0108	0.0027	0.014	0.006	0.014	0.002	38	0.027	0.0122	0.005
20x2001x6000	PK96159101-9105	5	9,430	SK80237	T	401	532	31	1: 201			L	0.1534	0.205	1.537	0.0110	0.0034	0.013	0.006	0.015	0.002	33	0.030	0.0126	0.005
									2: 222			P	0.1598	0.207	1.520	0.0108	0.0027	0.014	0.006	0.014	0.002	38	0.027	0.0122	0.005
20x2001x6000	PK96159201-9205	5	9,430	SK80237	T	401	532	31	1: 201			L	0.1534	0.205	1.537	0.0110	0.0034	0.013	0.006	0.015	0.002	33	0.030	0.0126	0.005
									2: 222			P	0.1598	0.207	1.520	0.0108	0.0027	0.014	0.006	0.014	0.002	38	0.027	0.0122	0.005
*** Sub Total (110) ***		43	81,098 (kg)																						
*** Heat Treatment ==> Controlled rolling ***												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5													
20x2450x12000	PK96146401-6403	3	13,848	SK80236	T	397	523	31	1: 209			L	0.1572	0.202	1.525	0.0109	0.0032	0.012	0.006	0.014	0.002	26	0.028	0.0125	0.005
									2: 185			P	0.1587	0.201	1.518	0.0108	0.0033	0.012	0.005	0.013	0.002	34	0.027	0.0126	0.004
20x2450x12000	PK96146301	1	4,616	SK80238	T	418	536	29	1: 178			L	0.1588	0.205	1.551	0.0133	0.0041	0.014	0.006	0.015	0.003	31	0.029	0.0128	0.005
									2: 171			P	0.1553	0.203	1.538	0.0131	0.0041	0.013	0.006	0.015	0.002	32	0.027	0.0127	0.005

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

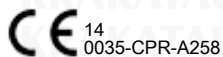
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
PK96159901-9905	L	0.039	0.040	0.41
	P	0.036	0.038	
PK96160001-0005	L	0.039	0.040	0.41
	P	0.036	0.038	
PK96159101-9105	L	0.039	0.040	0.41
	P	0.036	0.038	
PK96159201-9205	L	0.039	0.040	0.41
	P	0.036	0.038	
*** Sub Total (110) ***			43	81,098 (kg)
PK96146401-6403	L	0.042	0.044	0.42
	P	0.041	0.042	
PK96146301	L	0.048	0.048	0.42
	P	0.046	0.047	

$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
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Surveyor To :

**KP001** *Choi Jong Seog*



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

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PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

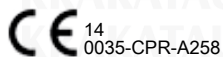
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test	U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
*** Sub Total (120) ***		4	18,464 (kg)	CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5																				
*** Heat Treatment ==> Controlled rolling ***																								
20x2500x6000	PK96260703-0705	3	7,065	SK80235	T	402	531	29	1: 220 2: 219 3: 209 A: 216	L P	0.1510 0.1505	0.196 0.199	1.548 1.537	0.0119 0.0121	0.0029 0.0033	0.014 0.013	0.006 0.006	0.018 0.017	0.002 0.002	26 40	0.030 0.028	0.0123 0.0130	0.005 0.005	
20x2500x6000	PK96059601-9604	4	9,420	SK80237	T	380	509	31	1: 191 2: 217 3: 228 A: 212	L P	0.1534 0.1598	0.205 0.207	1.537 1.520	0.0110 0.0108	0.0034 0.0027	0.013 0.014	0.006 0.006	0.015 0.014	0.002 0.002	33 38	0.030 0.027	0.0126 0.0122	0.005 0.005	
20x2500x6000	PK96059701-9704	4	9,420	SK80237	T	380	509	31	1: 191 2: 217 3: 228 A: 212	L P	0.1534 0.1598	0.205 0.207	1.537 1.520	0.0110 0.0108	0.0034 0.0027	0.013 0.014	0.006 0.006	0.015 0.014	0.002 0.002	33 38	0.030 0.027	0.0126 0.0122	0.005 0.005	
*** Sub Total (130) ***		11	25,905 (kg)	CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5																				
*** Heat Treatment ==> Controlled rolling ***																								

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A<sub>0</sub>. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

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Surveyor To :

KP001 Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
*** Sub Total (120) ***			4	18,464 (kg)
				CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5
PK96260703-0705	L	0.037	0.037	0.41
	P	0.039	0.040	
PK96059601-9604	L	0.039	0.040	0.41
	P	0.036	0.038	
PK96059701-9704	L	0.039	0.040	0.41
	P	0.036	0.038	
*** Sub Total (130) ***			11	25,905 (kg)
				CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

(42512)  
Commodity : PRIME HOT ROLLED STEEL PLATE

Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)				C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
20x2500x9000	PK96260701-0702	2	7,064	SK80235	T	402	531	29	1: 220	Good	L	0.1510	0.196	1.548	0.0119	0.0029	0.014	0.006	0.018	0.002	26	0.030	0.0123	0.005	
									2: 219			P	0.1505	0.199	1.537	0.0121	0.0033	0.013	0.006	0.017	0.002	40	0.028	0.0130	0.005
20x2500x9000	PK96259603	1	3,532	SK80237	T	401	532	31	1: 201	Good	L	0.1534	0.205	1.537	0.0110	0.0034	0.013	0.006	0.015	0.002	33	0.030	0.0126	0.005	
									2: 222			P	0.1598	0.207	1.520	0.0108	0.0027	0.014	0.006	0.014	0.002	38	0.027	0.0122	0.005
20x2500x9000	PK96260801-0804	4	14,128	SK80238	T	408	535	30	1: 126	Good	L	0.1588	0.205	1.551	0.0133	0.0041	0.014	0.006	0.015	0.003	31	0.029	0.0128	0.005	
									2: 185			P	0.1553	0.203	1.538	0.0131	0.0041	0.013	0.006	0.015	0.002	32	0.027	0.0127	0.005
20x2500x9000	PK96261101-1104	4	14,128	SK80238	T	400	532	32	1: 206	Good	L	0.1588	0.205	1.551	0.0133	0.0041	0.014	0.006	0.015	0.003	31	0.029	0.0128	0.005	
									2: 196			P	0.1553	0.203	1.538	0.0131	0.0041	0.013	0.006	0.015	0.002	32	0.027	0.0127	0.005
20x2500x9000	PK96261201-1204	4	14,128	SK80238	T	400	532	32	1: 206	Good	L	0.1588	0.205	1.551	0.0133	0.0041	0.014	0.006	0.015	0.003	31	0.029	0.0128	0.005	
									2: 196			P	0.1553	0.203	1.538	0.0131	0.0041	0.013	0.006	0.015	0.002	32	0.027	0.0127	0.005
*** Sub Total (140) ***		15	52,980 (kg)																						
*** Heat Treatment ==> Controlled rolling ***												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5													

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* U.S.T : Ultrasonic Test.  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

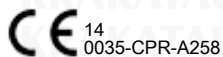
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
PK96260701-0702	L	0.037	0.037	0.41
	P	0.039	0.040	
PK96259603	L	0.039	0.040	0.41
	P	0.036	0.038	
PK96260801-0804	L	0.048	0.048	0.42
	P	0.046	0.047	
PK96261101-1104	L	0.048	0.048	0.42
	P	0.046	0.047	
PK96261201-1204	L	0.048	0.048	0.42
	P	0.046	0.047	
*** Sub Total (140) ***			15	52,980 (kg)

$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

**KP001** *Choi Jong Seog*



Order No. : Q8S1025879

PO No. : D4B0269

Supplier : SUNGJIN CO., LTD.

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Customer : .

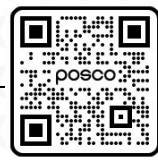
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Ultrasonic Test						Remarks
	Examination Method	Apparatus	Transducer	Frequency (MHz)	Sensitivity	Test Result	
PK96260701-0702	2	1	1	5	H	1	1. Application Spec. : EN10160(1999) S1/E1  2. We hereby certify that the material described herein has been examined in accordance with above ultrasonic specification and fully conformed thereto.
PK96259603	2	1	1	5	H	1	
PK96260801-0804	2	1	1	5	H	1	
PK96261101-1104	2	1	1	5	H	1	
PK96261201-1204	2	1	1	5	H	1	
*** Sub Total (140) ***		15	52,980 (kg)				

\* Couplant : Water  
 \* Examination method(1:Direct straight Beam, 2:Direct double beam, 3:Others)  
 \* Apparatus(1 : Digital Flaw Detector, 2: Others)  
 \* Transducer(1: φ 20 mm, 2: φ 24 mm, 3: φ 25 mm or 25 mm square, 4: φ 30 mm, 5:8~12.5 mm, 9:others)  
 \* Sensitivity(A:RB-D-1<sub>0</sub>=50 % +10DB, B:STB-N<sub>1</sub>=50 %, C:STB-N<sub>1</sub>=70 %, D:STB-G.V<sub>1.5-4.0</sub>=50 %, E:STB-G.V<sub>1.5-4.0</sub>=80 %, F:STB-G.V<sub>1.5-2.8</sub>=50 %, G:BG=75±5 %, H: φ 5.0 mmDAC, I: φ 11.0 mmDAC, J: φ 8.0 mmDAC, K:GB-T2970 Sensitivity, L:BG=100 %, M: φ 5.0 mmFBH=60 %, N:Soviet 75ATM Sens., O:BS5996-93 Sens, P: φ 6.0 mmDAC, X:Others)  
 \* Test Result ( 1: Good, 2: Acceptable )

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.





Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
PK96304002-4005	L	0.036	0.039	0.42
	P	0.037	0.039	
PK96303901-3906	L	0.036	0.039	0.42
	P	0.037	0.039	
PK96304501-4506	L	0.042	0.043	0.42
	P	0.039	0.041	
PK96304601-4606	L	0.041	0.045	0.42
	P	0.046	0.047	
*** Sub Total (150) ***			22	51,832 (kg)
$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$				
PK96191401-1402	L	0.037	0.039	0.41
	P	0.033	0.035	
*** Sub Total (180) ***			2	5,886 (kg)
$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$				

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
 We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

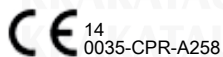
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)				C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
25x2500x9000	PK95866301-6303	3	13,242	SK79871	T	371	504	32	1: 230 2: 224 3: 208 A: 221	Good	L P	0.1586 0.1562	0.202 0.195	1.562 1.562	0.0121 0.0118	0.0035 0.0036	0.015 0.014	0.008 0.007	0.016 0.015	0.003 0.003	50 27	0.030 0.029	0.0131 0.0131	0.006 0.005	
*** Sub Total (190) ***		3	13,242 (kg)																						
*** Heat Treatment ==> Controlled rolling ***																									
													CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* U.S.T : Ultrasonic Test.  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

**KP001** *Choi Jong Seog* 



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE  
(42512)

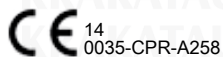
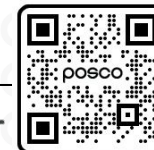
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
PK95866301-6303	L	0.053	0.055	0.43
	P	0.052	0.053	
*** Sub Total (190) ***			3	13,242 (kg)

$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
 We hereby certify that the material herein has been made in accordance with PED2014/68/EU  
 and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

**KP001** Choi Jong Seog

Order No. : Q8S1025879

PO No. : D4B0269

Supplier : SUNGJIN CO., LTD.

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Customer : .

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Ultrasonic Test						Remarks
	Examination Method	Apparatus	Transducer	Frequency (MHz)	Sensitivity	Test Result	
PK95866301-6303 *** Sub Total (190) ***	2	3 1	1 13,242 (kg)	5	H	1	1. Application Spec. : EN10160(1999) S1/E1  2. We hereby certify that the material described herein has been examined in accordance with above ultrasonic specification and fully conformed thereto.

\* Couplant : Water  
 \* Examination method(1:Direct straight Beam, 2:Direct double beam, 3:Others)  
 \* Apparatus(1 : Digital Flaw Detector, 2: Others)  
 \* Transducer(1: φ 20 mm, 2: φ 24 mm, 3: φ 25 mm or 25 mm square, 4: φ 30 mm, 5:8~12.5 mm, 9:others)  
 \* Sensitivity(A:RB-D-1φ=50 %+10DB, B:STB-N<sub>1</sub>=50 %, C:STB-N<sub>1</sub>=70 %, D:STB-G.V<sub>1.5-4.0</sub>=50 %, E:STB-G.V<sub>1.5-4.0</sub>=80 %, F:STB-G.V<sub>1.5-2.8</sub>=50 %, G:BG=75±5 %, H: φ 5.0 mmDAC, I: φ 11.0 mmDAC, J: φ 8.0 mmDAC, K:GB-T2970 Sensitivity, L:BG=100 %, M: φ 5.0 mmFBH=60 %, N:Soviet 75ATM Sens., O:BS5996-93 Sens, P: φ 6.0 mmDAC, X:Others)  
 \* Test Result ( 1: Good, 2: Acceptable )

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

(42512)  
Commodity : PRIME HOT ROLLED STEEL PLATE

Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test	U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
30x2001x6000	PK96019901-9904	4	11,312	SK80233	T	371	509	30	1: 206		L	0.1529	0.193	1.517	0.0096	0.0033	0.012	0.008	0.017	0.003	28	0.028	0.0118	0.005
									2: 221			P	0.1527	0.194	1.519	0.0094	0.0047	0.011	0.008	0.017	0.002	42	0.026	0.0116
30x2001x6000	PK96019801-9804	4	11,312	SK80233	T	365	504	31	1: 201		L	0.1529	0.193	1.517	0.0096	0.0033	0.012	0.008	0.017	0.003	28	0.028	0.0118	0.005
									2: 223			P	0.1527	0.194	1.519	0.0094	0.0047	0.011	0.008	0.017	0.002	42	0.026	0.0116
30x2001x6000	PK96300301-0304	4	11,312	SK80290	T	391	531	30	1: 166		L	0.1537	0.202	1.553	0.0111	0.0030	0.012	0.002	0.006	0.001	37	0.027	0.0132	0.005
									2: 132			P	0.1565	0.204	1.552	0.0107	0.0022	0.011	0.002	0.006	0.001	32	0.027	0.0131
30x2001x6000	PK96301201-1203	3	8,484	SK80333	T	384	524	30	1: 182		L	0.1559	0.198	1.531	0.0122	0.0034	0.011	0.005	0.014	0.002	34	0.029	0.0127	0.005
									2: 183			P	0.1542	0.204	1.553	0.0113	0.0021	0.010	0.005	0.013	0.002	27	0.029	0.0128
30x2001x6000	PK96301401-1404	4	11,312	SK80333	T	383	527	29	1: 188		L	0.1559	0.198	1.531	0.0122	0.0034	0.011	0.005	0.014	0.002	34	0.029	0.0127	0.005
									2: 221			P	0.1542	0.204	1.553	0.0113	0.0021	0.010	0.005	0.013	0.002	27	0.029	0.0128
30x2001x6000	PK96301701-1704	4	11,312	SK80333	T	383	527	29	1: 188		L	0.1559	0.198	1.531	0.0122	0.0034	0.011	0.005	0.014	0.002	34	0.029	0.0127	0.005
									2: 221			P	0.1542	0.204	1.553	0.0113	0.0021	0.010	0.005	0.013	0.002	27	0.029	0.0128
*** Sub Total (200) ***		23	65,044 (kg)																					
*** Heat Treatment ==> Controlled rolling ***												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

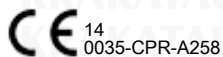
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
PK96019901-9904	L	0.041	0.042	0.41
	P	0.041	0.041	
PK96019801-9804	L	0.041	0.042	0.41
	P	0.041	0.041	
PK96300301-0304	L	0.042	0.043	0.42
	P	0.041	0.043	
PK96301201-1203	L	0.041	0.045	0.42
	P	0.046	0.047	
PK96301401-1404	L	0.041	0.045	0.42
	P	0.046	0.047	
PK96301701-1704	L	0.041	0.045	0.42
	P	0.046	0.047	
*** Sub Total (200) ***			23	65,044 (kg)

$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
 We hereby certify that the material herein has been made in accordance with PED2014/68/EU  
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Surveyor To :

**KP001** *Choi Jong Seog*



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

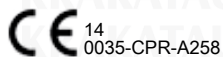
Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		U.S.T	Division	Chemical Composition											
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)				C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)
30x2450x12000	PK96292101-2102	2	13,848	SK80334	T	379	526	29	1: 175 2: 196 3: 205 A: 192		L P	0.1560 0.1545	0.199 0.194	1.550 1.555	0.0108 0.0105	0.0033 0.0025	0.011 0.011	0.006 0.006	0.014 0.014	0.002 0.002	36 33	0.030 0.029	0.0129 0.0125	0.005 0.005
*** Sub Total (210) ***		2	13,848 (kg)																					
*** Heat Treatment ==> Controlled rolling ***																								

CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



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KP001 Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE  
(42512)

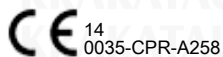
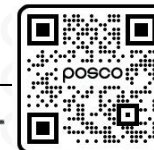
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96292101-2102	L	0.042	0.044	0.42
	P	0.039	0.041	
*** Sub Total (210) ***			2	13,848 (kg)

$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
 We hereby certify that the material herein has been made in accordance with PED2014/68/EU  
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PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		U.S.T	Division	Chemical Composition											
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)	U.S.T			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)
30x2450x12000	PK96198902	1	6,924	SK80232	T	395	525	30	1: 219	Good	L	0.1555	0.202	1.548	0.0107	0.0030	0.014	0.006	0.017	0.003	31	0.029	0.0133	0.005
									2: 228			P	0.1587	0.199	1.524	0.0095	0.0028	0.014	0.005	0.017	0.002	43	0.026	0.0127
30x2450x12000	PK96292001-2002	2	13,848	SK80334	T	389	521	30	1: 193	Good	L	0.1560	0.199	1.550	0.0108	0.0033	0.011	0.006	0.014	0.002	36	0.030	0.0129	0.005
									2: 220			P	0.1545	0.194	1.555	0.0105	0.0025	0.011	0.006	0.014	0.002	33	0.029	0.0125
*** Sub Total (220) ***		3	20,772 (kg)																					
*** Heat Treatment ==> Controlled rolling ***												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* U.S.T : Ultrasonic Test.  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

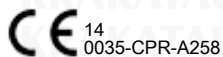
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96198902	L	0.045	0.046	0.42
	P	0.045	0.046	
PK96292001-2002	L	0.042	0.044	0.42
	P	0.039	0.041	
*** Sub Total (220) ***			3	20,772 (kg)

$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

**KP001** Choi Jong Seog



Order No. : Q8S1025879

PO No. : D4B0269

Supplier : SUNGJIN CO., LTD.

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Customer : .

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Ultrasonic Test						Remarks
	Examination Method	Apparatus	Transducer	Frequency (MHz)	Sensitivity	Test Result	
PK96198902	2	1	1	5	H	1	1. Application Spec. : EN10160(1999) S1/E1  2. We hereby certify that the material described herein has been examined in accordance with above ultrasonic specification and fully conformed thereto.
PK96292001-2002	2	1	1	5	H	1	
*** Sub Total (220) ***		3	20,772 (kg)				

\* Couplant : Water  
 \* Examination method(1:Direct straight Beam, 2:Direct double beam, 3:Others)  
 \* Apparatus(1 : Digital Flaw Detector, 2: Others)  
 \* Transducer(1:  $\phi$  20 mm, 2:  $\phi$  24 mm, 3:  $\phi$  25 mm or 25 mm square, 4:  $\phi$  30 mm, 5:8~12.5 mm, 9:others)  
 \* Sensitivity(A:RB-D-1<sub>0</sub>=50 %+10DB, B:STB-N<sub>1</sub>=50 %, C:STB-N<sub>1</sub>=70 %, D:STB-G.V<sub>1.5-4.0</sub>=50 %, E:STB-G.V<sub>1.5-4.0</sub>=80 %, F:STB-G.V<sub>1.5-2.8</sub>=50 %, G:BG=75±5 %, H:  $\phi$  5.0 mmDAC, I:  $\phi$  11.0 mmDAC, J:  $\phi$  8.0 mmDAC, K:GB-T2970 Sensitivity, L:BG=100 %, M:  $\phi$  5.0 mmFBH=60 %, N:Soviet 75ATM Sens., O:BS5996-93 Sens, P:  $\phi$  6.0 mmDAC, X:Others)  
 \* Test Result ( 1: Good, 2: Acceptable )

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

(42512)  
Commodity : PRIME HOT ROLLED STEEL PLATE

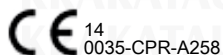
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test V Notch -20 °C Energy (Joule)	U.S.T	Division	Chemical Composition													
						YP (MPa)	TS (%)	EL (%)				C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)	
35x2001x6000	PK96019302	1	3,300	SK80203	T	378	506	29	1: 211 2: 198 3: 189 A: 199		L	0.1568	0.199	1.528	0.0109	0.0039	0.013	0.006	0.015	0.002	28	0.029	0.0119	0.007	
						P	0.1574	0.194				1.544	0.0112	0.0058	0.012	0.006	0.015	0.001	32	0.026	0.0124	0.005			
35x2001x6000	PK96019401-9402	2	6,600	SK80203	T	378	506	29	1: 211 2: 198 3: 189 A: 199		L	0.1568	0.199	1.528	0.0109	0.0039	0.013	0.006	0.015	0.002	28	0.029	0.0119	0.007	
						P	0.1574	0.194				1.544	0.0112	0.0058	0.012	0.006	0.015	0.001	32	0.026	0.0124	0.005			
35x2001x6000	PK96019501-9502	2	6,600	SK80203	T	378	506	29	1: 211 2: 198 3: 189 A: 199		L	0.1568	0.199	1.528	0.0109	0.0039	0.013	0.006	0.015	0.002	28	0.029	0.0119	0.007	
						P	0.1574	0.194				1.544	0.0112	0.0058	0.012	0.006	0.015	0.001	32	0.026	0.0124	0.005			
35x2001x6000	PK96019202	1	3,300	SK80203	T	374	507	30	1: 213 2: 214 3: 207 A: 211		L	0.1568	0.199	1.528	0.0109	0.0039	0.013	0.006	0.015	0.002	28	0.029	0.0119	0.007	
						P	0.1574	0.194				1.544	0.0112	0.0058	0.012	0.006	0.015	0.001	32	0.026	0.0124	0.005			
35x2001x6000	PK96019601-9602	2	6,600	SK80204	T	369	508	29	1: 202 2: 225 3: 187 A: 205		L	0.1514	0.194	1.521	0.0101	0.0035	0.011	0.006	0.015	0.002	29	0.028	0.0127	0.005	
						P	0.1494	0.196				1.556	0.0107	0.0052	0.012	0.006	0.015	0.001	33	0.027	0.0126	0.005			
35x2001x6000	PK96019701-9702	2	6,600	SK80204	T	369	508	29	1: 202 2: 225 3: 187 A: 205		L	0.1514	0.194	1.521	0.0101	0.0035	0.011	0.006	0.015	0.002	29	0.028	0.0127	0.005	
						P	0.1494	0.196				1.556	0.0107	0.0052	0.012	0.006	0.015	0.001	33	0.027	0.0126	0.005			
*** Sub Total (240) ***		10	33,000 (kg)																						
												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5													
*** Heat Treatment ==> Controlled rolling ***																									

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

KP001 Choi Jong Seog

Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE  
(42512)

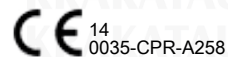
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96019302	L	0.042	0.043	0.42
	P	0.043	0.044	
PK96019401-9402	L	0.042	0.043	0.42
	P	0.043	0.044	
PK96019501-9502	L	0.042	0.043	0.42
	P	0.043	0.044	
PK96019202	L	0.042	0.043	0.42
	P	0.043	0.044	
PK96019601-9602	L	0.043	0.044	0.41
	P	0.041	0.042	
PK96019701-9702	L	0.043	0.044	0.41
	P	0.041	0.042	
*** Sub Total (240) ***			10	33,000 (kg)

$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
 We hereby certify that the material herein has been made in accordance with PED2014/68/EU  
 and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

**KP001** Choi Jong Seog

Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

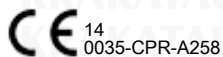
Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)	U.S.T			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
35x2500x9000	PK95865901-5902	2	12,366	SK79832	T	378	516	31	1: 181 2: 186 3: 180 A: 182	Good	L P	0.1490 0.1569	0.196 0.199	1.559 1.548	0.0119 0.0126	0.0040 0.0038	0.014 0.015	0.007 0.008	0.016 0.016	0.002 0.003	28 37	0.028 0.029	0.0115 0.0122	0.005 0.005	
*** Sub Total (250) ***		2	12,366 (kg)																						
*** Heat Treatment ==> Controlled rolling ***																									

CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5

- \* Position - T : Top, M : Middle, B : Bottom
- \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point
- \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm
- \* U.S.T : Ultrasonic Test.
- \* Division - L : Ladle Analysis, P : Products Analysis
- \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

**KP001** Choi Jong Seog





Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

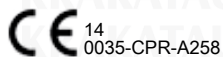
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK95865901-5902	L	0.039	0.040	0.41
	P	0.037	0.039	
*** Sub Total (250) ***			2	12,366 (kg)

$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
 We hereby certify that the material herein has been made in accordance with PED2014/68/EU  
 and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

**KP001** *Choi Jong Seog*

Order No. : Q8S1025879

PO No. : D4B0269

Supplier : SUNGJIN CO., LTD.

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Customer : .

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Ultrasonic Test						Remarks
	Examination Method	Apparatus	Transducer	Frequency (MHz)	Sensitivity	Test Result	
PK95865901-5902 *** Sub Total (250) ***	2	1 2	1 12,366 (kg)	5	H	1	1. Application Spec. : EN10160(1999) S2/E3  2. We hereby certify that the material described herein has been examined in accordance with above ultrasonic specification and fully conformed thereto.

\* Couplant : Water  
 \* Examination method(1:Direct straight Beam, 2:Direct double beam, 3:Others)  
 \* Apparatus(1 : Digital Flaw Detector, 2: Others)  
 \* Transducer(1: φ 20 mm, 2: φ 24 mm, 3: φ 25 mm or 25 mm square, 4: φ 30 mm, 5:8~12.5 mm, 9:others)  
 \* Sensitivity(A:RB-D-1<sub>0</sub>=50 % +10DB, B:STB-N<sub>1</sub>=50 %, C:STB-N<sub>1</sub>=70 %, D:STB-G.V<sub>1.5-4.0</sub>=50 %, E:STB-G.V<sub>1.5-4.0</sub>=80 %, F:STB-G.V<sub>1.5-2.8</sub>=50 %, G:BG=75±5 %, H: φ 5.0 mmDAC, I: φ 11.0 mmDAC, J: φ 8.0 mmDAC, K:GB-T2970 Sensitivity, L:BG=100 %, M: φ 5.0 mmFBH=60 %, N:Soviet 75ATM Sens., O:BS5996-93 Sens, P: φ 6.0 mmDAC, X:Others)  
 \* Test Result ( 1: Good, 2: Acceptable )

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

(42512)  
Commodity : PRIME HOT ROLLED STEEL PLATE

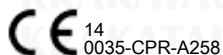
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)				C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
40x2001x6000	PK96154602	1	3,771	SK80174	T	385	518	28	1: 199			L	0.1577	0.212	1.538	0.0128	0.0036	0.013	0.006	0.012	0.002	32	0.029	0.0122	0.005
						P	0.1559	0.202	1.558				0.0127	0.0033	0.012	0.006	0.012	0.002	32	0.028	0.0118	0.005			
40x2001x6000	PK96155402	1	3,771	SK80174	T	385	518	28	1: 199			L	0.1577	0.212	1.538	0.0128	0.0036	0.013	0.006	0.012	0.002	32	0.029	0.0122	0.005
						P	0.1559	0.202	1.558				0.0127	0.0033	0.012	0.006	0.012	0.002	32	0.028	0.0118	0.005			
40x2001x6000	PK96155502	1	3,771	SK80174	T	385	518	28	1: 199			L	0.1577	0.212	1.538	0.0128	0.0036	0.013	0.006	0.012	0.002	32	0.029	0.0122	0.005
						P	0.1559	0.202	1.558				0.0127	0.0033	0.012	0.006	0.012	0.002	32	0.028	0.0118	0.005			
40x2001x6000	PK96155302	1	3,771	SK80174	T	395	521	30	1: 168			L	0.1577	0.212	1.538	0.0128	0.0036	0.013	0.006	0.012	0.002	32	0.029	0.0122	0.005
						P	0.1559	0.202	1.558				0.0127	0.0033	0.012	0.006	0.012	0.002	32	0.028	0.0118	0.005			
40x2001x6000	PK96154702	1	3,771	SK80175	T	390	523	29	1: 233			L	0.1581	0.199	1.535	0.0116	0.0042	0.011	0.006	0.013	0.002	32	0.029	0.0116	0.005
						P	0.1579	0.201	1.562				0.0119	0.0034	0.011	0.006	0.012	0.002	25	0.029	0.0125	0.005			
40x2001x6000	PK96155202	1	3,771	SK80175	T	390	523	29	1: 233			L	0.1581	0.199	1.535	0.0116	0.0042	0.011	0.006	0.013	0.002	32	0.029	0.0116	0.005
						P	0.1579	0.201	1.562				0.0119	0.0034	0.011	0.006	0.012	0.002	25	0.029	0.0125	0.005			
40x2001x6000	PK96155002	1	3,771	SK80176	T	387	522	27	1: 186			L	0.1572	0.194	1.518	0.0125	0.0039	0.011	0.005	0.013	0.002	32	0.028	0.0112	0.005
						P	0.1608	0.196	1.540				0.0122	0.0035	0.012	0.006	0.013	0.002	25	0.027	0.0114	0.005			

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

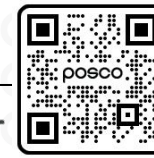
This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

KP001 Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

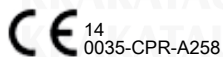
Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96154602	L	0.039	0.040	0.42
	P	0.037	0.038	
PK96155402	L	0.039	0.040	0.42
	P	0.037	0.038	
PK96155502	L	0.039	0.040	0.42
	P	0.037	0.038	
PK96155302	L	0.039	0.040	0.42
	P	0.037	0.038	
PK96154702	L	0.037	0.037	0.42
	P	0.036	0.037	
PK96155202	L	0.037	0.037	0.42
	P	0.036	0.037	
PK96155002	L	0.037	0.037	0.42
	P	0.035	0.035	

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
 We hereby certify that the material herein has been made in accordance with PED2014/68/EU  
 and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

**KP001** *Choi Jong Seog*





Order No. : Q8S1025879

PO No. : D4B0269

Supplier : SUNGJIN CO., LTD.

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Customer : .

Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)				C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
40x2001x6000	PK96155102	1	3,771	SK80176	T	387	522	27	1: 186			L	0.1572	0.194	1.518	0.0125	0.0039	0.011	0.005	0.013	0.002	32	0.028	0.0112	0.005
									2: 164			P	0.1608	0.196	1.540	0.0122	0.0035	0.012	0.006	0.013	0.002	25	0.027	0.0114	0.005
40x2001x6000	PK96154902	1	3,771	SK80176	T	377	517	28	1: 189			L	0.1572	0.194	1.518	0.0125	0.0039	0.011	0.005	0.013	0.002	32	0.028	0.0112	0.005
									2: 208			P	0.1608	0.196	1.540	0.0122	0.0035	0.012	0.006	0.013	0.002	25	0.027	0.0114	0.005
40x2001x6000	PK96154802	1	3,771	SK80177	T	412	532	28	1: 212			L	0.1603	0.198	1.541	0.0120	0.0041	0.010	0.006	0.013	0.002	31	0.029	0.0122	0.005
									2: 224			P	0.1627	0.200	1.569	0.0118	0.0040	0.010	0.006	0.012	0.001	27	0.028	0.0124	0.005
40x2001x6000	PK96154402	1	3,771	SK80178	T	379	518	28	1: 173			L	0.1579	0.200	1.544	0.0121	0.0035	0.011	0.006	0.013	0.002	30	0.029	0.0119	0.005
									2: 180			P	0.1588	0.203	1.564	0.0119	0.0040	0.011	0.006	0.013	0.001	29	0.028	0.0120	0.005
40x2001x6000	PK96154502	1	3,771	SK80178	T	384	523	28	1: 182			L	0.1579	0.200	1.544	0.0121	0.0035	0.011	0.006	0.013	0.002	30	0.029	0.0119	0.005
									2: 209			P	0.1588	0.203	1.564	0.0119	0.0040	0.011	0.006	0.013	0.001	29	0.028	0.0120	0.005
40x2001x6000	PK96155702	1	3,771	SK80178	T	400	529	28	1: 222			L	0.1579	0.200	1.544	0.0121	0.0035	0.011	0.006	0.013	0.002	30	0.029	0.0119	0.005
									2: 219			P	0.1588	0.203	1.564	0.0119	0.0040	0.011	0.006	0.013	0.001	29	0.028	0.0120	0.005
40x2001x6000	PK96155802	1	3,771	SK80178	T	400	529	28	1: 222			L	0.1579	0.200	1.544	0.0121	0.0035	0.011	0.006	0.013	0.002	30	0.029	0.0119	0.005
									2: 219			P	0.1588	0.203	1.564	0.0119	0.0040	0.011	0.006	0.013	0.001	29	0.028	0.0120	0.005

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

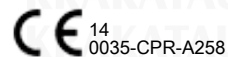
Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96155102	L	0.037	0.037	0.42
	P	0.035	0.035	
PK96154902	L	0.037	0.037	0.42
	P	0.035	0.035	
PK96154802	L	0.040	0.041	0.42
	P	0.041	0.041	
PK96154402	L	0.039	0.041	0.42
	P	0.039	0.040	
PK96154502	L	0.039	0.041	0.42
	P	0.039	0.040	
PK96155702	L	0.039	0.041	0.42
	P	0.039	0.040	
PK96155802	L	0.039	0.041	0.42
	P	0.039	0.040	

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
 We hereby certify that the material herein has been made in accordance with PED2014/68/EU  
 and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

**KP001** *Choi Jong Seog*



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

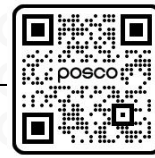
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test	U.S.T	Division	Chemical Composition													
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)	
*** Sub Total (260) ***		14	52,794 (kg)									CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5													
*** Heat Treatment ==> Controlled rolling ***																									
40x2001x6000	PK96024101	1	3,771	SK80174	T	385	518	28	1: 199 2: 191 3: 183 A: 191	Good	L P	0.1577 0.1559	0.212 0.202	1.538 1.558	0.0128 0.0127	0.0036 0.0033	0.013 0.012	0.006 0.006	0.012 0.012	0.002 0.002	32 32	0.029 0.028	0.0122 0.0118	0.005 0.005	
40x2001x6000	PK96155601-5603	3	11,313	SK80178	T	384	523	28	1: 182 2: 209 3: 167 A: 186	Good	L P	0.1579 0.1588	0.200 0.203	1.544 1.564	0.0121 0.0119	0.0035 0.0040	0.011 0.011	0.006 0.006	0.013 0.013	0.002 0.001	30 29	0.029 0.028	0.0119 0.0120	0.005 0.005	
*** Sub Total (270) ***		4	15,084 (kg)									CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5													
*** Heat Treatment ==> Controlled rolling ***																									
40x2200x11000	PK96016901-6902	2	15,198	SK80178	T	379	518	28	1: 173 2: 180 3: 184 A: 179	Good	L P	0.1579 0.1588	0.200 0.203	1.544 1.564	0.0121 0.0119	0.0035 0.0040	0.011 0.011	0.006 0.006	0.013 0.013	0.002 0.001	30 29	0.029 0.028	0.0119 0.0120	0.005 0.005	
*** Sub Total (280) ***		2	15,198 (kg)									CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5													
*** Heat Treatment ==> Controlled rolling ***																									

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* U.S.T : Ultrasonic Test.  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

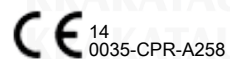
Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
*** Sub Total (260) ***			14	52,794 (kg)
				CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5
PK96024101	L	0.039	0.040	0.42
	P	0.037	0.038	
PK96155601-5603	L	0.039	0.041	0.42
	P	0.039	0.040	
*** Sub Total (270) ***			4	15,084 (kg)
				CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5
PK96016901-6902	L	0.039	0.041	0.42
	P	0.039	0.040	
*** Sub Total (280) ***			2	15,198 (kg)
				CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

**KP001** *Choi Jong Seog*





Order No. : Q8S1025879

PO No. : D4B0269

Supplier : SUNGJIN CO., LTD.

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Customer : .

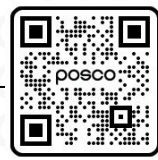
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Ultrasonic Test						Remarks
	Examination Method	Apparatus	Transducer	Frequency (MHz)	Sensitivity	Test Result	
PK96024101	2	1	1	5	H	1	1. Application Spec. : EN10160(1999) S2/E3  2. We hereby certify that the material described herein has been examined in accordance with above ultrasonic specification and fully conformed thereto.
PK96155601-5603	2	1	1	5	H	1	
*** Sub Total (270) ***		4	15,084 (kg)				
PK96016901-6902	2	1	1	5	H	1	
*** Sub Total (280) ***		2	15,198 (kg)				

\* Couplant : Water  
 \* Examination method(1:Direct straight Beam, 2:Direct double beam, 3:Others)  
 \* Apparatus(1 : Digital Flaw Detector, 2: Others)  
 \* Transducer(1: φ 20 mm, 2: φ 24 mm, 3: φ 25 mm or 25 mm square, 4: φ 30 mm, 5:8~12.5 mm, 9:others)  
 \* Sensitivity(A:RB-D-1<sub>0</sub>=50 % +10DB, B:STB-N<sub>1</sub>=50 %, C:STB-N<sub>1</sub>=70 %, D:STB-G.V<sub>1.5-4.0</sub>=50 %, E:STB-G.V<sub>1.5-4.0</sub>=80 %, F:STB-G.V<sub>1.5-2.8</sub>=50 %, G:BG=75±5 %, H: φ 5.0 mmDAC, I: φ 11.0 mmDAC, J: φ 8.0 mmDAC, K:GB-T2970 Sensitivity, L:BG=100 %, M: φ 5.0 mmFBH=60 %, N:Soviet 75ATM Sens., O:BS5996-93 Sens, P: φ 6.0 mmDAC, X:Others)  
 \* Test Result ( 1: Good, 2: Acceptable )

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

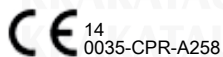
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)				C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
40x2450x12000	PK96010501	1	9,232	SK80177	T	397	529	29	1: 201			L	0.1603	0.198	1.541	0.0120	0.0041	0.010	0.006	0.013	0.002	31	0.029	0.0122	0.005
									2: 181			P	0.1627	0.200	1.569	0.0118	0.0040	0.010	0.006	0.012	0.001	27	0.028	0.0124	0.005
40x2450x12000	PK96291801	1	9,232	SK80290	T	388	520	29	1: 194			L	0.1537	0.202	1.553	0.0111	0.0030	0.012	0.002	0.006	0.001	37	0.027	0.0132	0.005
									2: 179			P	0.1565	0.204	1.552	0.0107	0.0022	0.011	0.002	0.006	0.001	32	0.027	0.0131	0.005
*** Sub Total (290) ***		2	18,464 (kg)																						
*** Heat Treatment ==> Controlled rolling ***													CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

KP001 *Choi Jong Seog*

Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

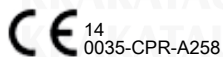
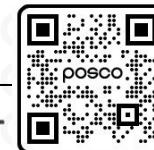
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96010501	L	0.040	0.041	0.42
	P	0.041	0.041	
PK96291801	L	0.042	0.043	0.42
	P	0.041	0.043	
*** Sub Total (290) ***			2	18,464 (kg)

$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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**KP001** Choi Jong Seog

Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		U.S.T	Division	Chemical Composition											
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)				C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)
40x2450x12000	PK96010601	1	9,232	SK80175	T	382	519	29	1: 218	Good	L	0.1581	0.199	1.535	0.0116	0.0042	0.011	0.006	0.013	0.002	32	0.029	0.0116	0.005
									2: 216			P	0.1579	0.201	1.562	0.0119	0.0034	0.011	0.006	0.012	0.002	25	0.029	0.0125
40x2450x12000	PK96010701	1	9,232	SK80175	T	382	519	29	A: 214	Good	L	0.1581	0.199	1.535	0.0116	0.0042	0.011	0.006	0.013	0.002	32	0.029	0.0116	0.005
									1: 218			P	0.1579	0.201	1.562	0.0119	0.0034	0.011	0.006	0.012	0.002	25	0.029	0.0125
*** Sub Total (300) ***		2	18,464 (kg)																					
*** Heat Treatment ==> Controlled rolling ***												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												

- \* Position - T : Top, M : Middle, B : Bottom
- \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point
- \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm
- \* U.S.T : Ultrasonic Test.
- \* Division - L : Ladle Analysis, P : Products Analysis
- \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE  
(42512)

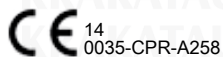
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96010601	L	0.037	0.037	0.42
	P	0.036	0.037	
PK96010701	L	0.037	0.037	0.42
	P	0.036	0.037	
*** Sub Total (300) ***			2	18,464 (kg)

$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

**KP001** Choi Jong Seog

Order No. : Q8S1025879

PO No. : D4B0269

Supplier : SUNGJIN CO., LTD.

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Customer : .

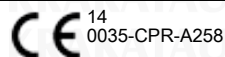
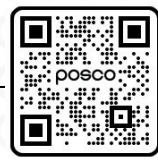
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Ultrasonic Test						Remarks
	Examination Method	Apparatus	Transducer	Frequency (MHz)	Sensitivity	Test Result	
PK96010601	2	1	1	5	H	1	1. Application Spec. : EN10160(1999) S1/E1  2. We hereby certify that the material described herein has been examined in accordance with above ultrasonic specification and fully conformed thereto.
PK96010701	2	1	1	5	H	1	
*** Sub Total (300) ***		2	18,464 (kg)				

\* Couplant : Water  
 \* Examination method(1:Direct straight Beam, 2:Direct double beam, 3:Others)  
 \* Apparatus(1 : Digital Flaw Detector, 2: Others)  
 \* Transducer(1:  $\phi$  20 mm, 2:  $\phi$  24 mm, 3:  $\phi$  25 mm or 25 mm square, 4:  $\phi$  30 mm, 5:8~12.5 mm, 9:others)  
 \* Sensitivity(A:RB-D-1<sub>0</sub>=50 % +10DB, B:STB-N<sub>1</sub>=50 %, C:STB-N<sub>1</sub>=70 %, D:STB-G.V<sub>1.5-4.0</sub>=50 %, E:STB-G.V<sub>1.5-4.0</sub>=80 %, F:STB-G.V<sub>1.5-2.8</sub>=50 %, G:BG=75±5 %, H:  $\phi$  5.0 mmDAC, I:  $\phi$  11.0 mmDAC, J:  $\phi$  8.0 mmDAC, K:GB-T2970 Sensitivity, L:BG=100 %, M:  $\phi$  5.0 mmFBH=60 %, N:Soviet 75ATM Sens., O:BS5996-93 Sens, P:  $\phi$  6.0 mmDAC, X:Others)  
 \* Test Result ( 1: Good, 2: Acceptable )

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

KP001

Choi Jong Seog

Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE

Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)	A: U.S.T			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
40x2500x8000	PK96009601-9602	2	12,560	SK80174	T	380	518	27	1: 197			L	0.1577	0.212	1.538	0.0128	0.0036	0.013	0.006	0.012	0.002	32	0.029	0.0122	0.005
									2: 214				P	0.1559	0.202	1.558	0.0127	0.0033	0.012	0.006	0.012	0.002	32	0.028	0.0118
40x2500x8000	PK96289002	1	6,280	SK80289	T	371	504	27	1: 181			L	0.1455	0.194	1.561	0.0105	0.0039	0.014	0.004	0.008	0.001	39	0.027	0.0116	0.005
									2: 189				P	0.1573	0.199	1.548	0.0099	0.0024	0.012	0.003	0.006	0.001	22	0.025	0.0115
*** Sub Total (310) ***		3	18,840 (kg)																						
*** Heat Treatment ==> Controlled rolling ***												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5													
45x2001x6000	PK96024501-4502	2	8,484	SK80202	T	384	515	27	1: 163			L	0.1558	0.196	1.447	0.0125	0.0047	0.016	0.006	0.018	0.002	33	0.045	0.0133	0.046
									2: 208				P	0.1588	0.200	1.460	0.0122	0.0038	0.014	0.006	0.017	0.001	37	0.042	0.0135
45x2001x6000	PK96024601-4602	2	8,484	SK80202	T	384	515	27	1: 163			L	0.1558	0.196	1.447	0.0125	0.0047	0.016	0.006	0.018	0.002	33	0.045	0.0133	0.046
									2: 208				P	0.1588	0.200	1.460	0.0122	0.0038	0.014	0.006	0.017	0.001	37	0.042	0.0135
*** Sub Total (320) ***		4	16,968 (kg)																						
*** Heat Treatment ==> Controlled rolling ***												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5													
50x2001x6000	PK96024901-4902	2	9,428	SK80201	T	401	517	27	1: 202			L	0.1542	0.192	1.460	0.0108	0.0038	0.014	0.006	0.016	0.002	32	0.043	0.0126	0.044
									2: 206				P	0.1550	0.193	1.469	0.0118	0.0035	0.013	0.006	0.015	0.002	25	0.046	0.0135
									3: 204																
									A: 204																

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

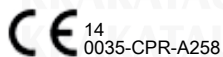
Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
PK96009601-9602	L	0.039	0.040	0.42
	P	0.037	0.038	
PK96289002	L	0.039	0.039	0.41
	P	0.041	0.042	
*** Sub Total (310) ***			3	18,840 (kg)
$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$				
PK96024501-4502	L	0.036	0.037	0.41
	P	0.038	0.040	
PK96024601-4602	L	0.036	0.037	0.41
	P	0.038	0.040	
*** Sub Total (320) ***			4	16,968 (kg)
$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$				
PK96024901-4902	L	0.038	0.040	0.41
	P	0.036	0.038	

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

**KP001** Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE  
(42512)

Spec &amp; Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test	U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
50x2001x6000	PK96025101-5102	2	9,428	SK80201	T	410	525	27	1: 198 2: 240 3: 205 A: 214		L	0.1542	0.192	1.460	0.0108	0.0038	0.014	0.006	0.016	0.002	32	0.043	0.0126	0.044
											P	0.1550	0.193	1.469	0.0118	0.0035	0.013	0.006	0.015	0.002	25	0.046	0.0135	0.044
50x2001x6000	PK96025201-5202	2	9,428	SK80201	T	410	525	27	1: 198 2: 240 3: 205 A: 214		L	0.1542	0.192	1.460	0.0108	0.0038	0.014	0.006	0.016	0.002	32	0.043	0.0126	0.044
											P	0.1550	0.193	1.469	0.0118	0.0035	0.013	0.006	0.015	0.002	25	0.046	0.0135	0.044
50x2001x6000	PK96025001	1	4,714	SK80201	T	374	514	26	1: 147 2: 161 3: 167 A: 158		L	0.1542	0.192	1.460	0.0108	0.0038	0.014	0.006	0.016	0.002	32	0.043	0.0126	0.044
											P	0.1550	0.193	1.469	0.0118	0.0035	0.013	0.006	0.015	0.002	25	0.046	0.0135	0.044
50x2001x6000	PK96024801	1	4,714	SK80202	T	403	521	26	1: 214 2: 202 3: 200 A: 205		L	0.1558	0.196	1.447	0.0125	0.0047	0.016	0.006	0.018	0.002	33	0.045	0.0133	0.046
											P	0.1588	0.200	1.460	0.0122	0.0038	0.014	0.006	0.017	0.001	37	0.042	0.0135	0.045
50x2001x6000	PK96024701-4702	2	9,428	SK80202	T	353	500	26	1: 173 2: 189 3: 157 A: 173		L	0.1558	0.196	1.447	0.0125	0.0047	0.016	0.006	0.018	0.002	33	0.045	0.0133	0.046
											P	0.1588	0.200	1.460	0.0122	0.0038	0.014	0.006	0.017	0.001	37	0.042	0.0135	0.045
*** Sub Total (330) ***		10	47,140 (kg)																					
*** Heat Treatment ==> Controlled rolling ***																								
50x2500x8000	PK96282201-2202	2	15,700	SK80031	T	449	539	26	1: 151 2: 153 3: 44 A: 116		L	0.1610	0.200	1.467	0.0125	0.0036	0.010	0.004	0.011	0.001	34	0.044	0.0121	0.046
											P	0.1647	0.201	1.483	0.0122	0.0030	0.013	0.005	0.012	0.002	27	0.049	0.0132	0.045

$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

\* Position - T : Top, M : Middle, B : Bottom

\* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point

\* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm

\* Division - L : Ladle Analysis, P : Products Analysis

\* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.

This material has been made by vacuum degassing process.

No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.

We hereby certify that the material herein has been made in accordance with PED2014/68/EU

and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

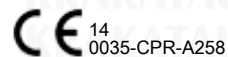
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
PK96025101-5102	L	0.038	0.040	0.41
	P	0.036	0.038	
PK96025201-5202	L	0.038	0.040	0.41
	P	0.036	0.038	
PK96025001	L	0.038	0.040	0.41
	P	0.036	0.038	
PK96024801	L	0.036	0.037	0.41
	P	0.038	0.040	
PK96024701-4702	L	0.036	0.037	0.41
	P	0.038	0.040	
*** Sub Total (330) ***			10	47,140 (kg)
PK96282201-2202	L	0.035	0.036	0.42
	P	0.032	0.034	

$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
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Surveyor To :

**KP001** *Choi Jong Seog*

Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

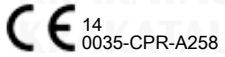
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test	U.S.T	Division	Chemical Composition													
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)	
50x2500x8000	PK96282301-2302	2	15,700	SK80031	T	449	539	26	1: 151		L	0.1610	0.200	1.467	0.0125	0.0036	0.010	0.004	0.011	0.001	34	0.044	0.0121	0.046	
									2: 153			P	0.1647	0.201	1.483	0.0122	0.0030	0.013	0.005	0.012	0.002	27	0.049	0.0132	0.045
50x2500x8000	PK96004101	1	7,850	SK80201	T	410	525	27	A: 116		L	0.1542	0.192	1.460	0.0108	0.0038	0.014	0.006	0.016	0.002	32	0.043	0.0126	0.044	
									1: 198			P	0.1550	0.193	1.469	0.0118	0.0035	0.013	0.006	0.015	0.002	25	0.046	0.0135	0.044
50x2500x8000	PK96004001	1	7,850	SK80201	T	374	514	26	A: 214		L	0.1542	0.192	1.460	0.0108	0.0038	0.014	0.006	0.016	0.002	32	0.043	0.0126	0.044	
									1: 147			P	0.1550	0.193	1.469	0.0118	0.0035	0.013	0.006	0.015	0.002	25	0.046	0.0135	0.044
*** Sub Total (340) ***		6	47,100 (kg)						2: 240																
*** Heat Treatment ===> Controlled rolling ***									3: 205																
*** Lot Total ***		333	854,592 (kg)						A: 214																
*** Grade Total ***		333	854,592 (kg)						1: 147																
									2: 161																
									3: 167																
									A: 158																
									CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5																
									Lot No. ==> LOT2																

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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KP001 Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

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PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

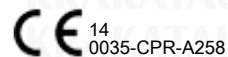
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ	
		(%)	(%)	(%)	
PK96282301-2302	L	0.035	0.036	0.42	
	P	0.032	0.034		
PK96004101	L	0.038	0.040	0.41	
	P	0.036	0.038		
PK96004001	L	0.038	0.040	0.41	
	P	0.036	0.038		
*** Sub Total (340) ***			6	47,100 (kg)	
*** Lot Total ***			333	854,592 (kg)	Lot No. ==> LOT2
*** Grade Total ***			333	854,592 (kg)	

CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
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**KP001** *Choi Jong Seog*





Order No. : Q8S1025879

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PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

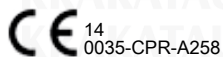
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test	U.S.T	Division	Chemical Composition												
						YP (MPa)	TS	EL (%)	V Notch -20 °C Energy (Joule)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
10x2001x6000	PK96267601	1	943	SK80077	T	430	545	30	1: 178 2: 172 3: 185 A: 178		L P	0.1601 0.1582	0.195 0.193	1.527 1.500	0.0109 0.0107	0.0034 0.0033	0.014 0.014	0.007 0.007	0.017 0.016	0.002 0.002	34 32	0.029 0.029	0.0127 0.0125	0.005 0.004
*** Sub Total (Q10) ***		1	943 (kg)																					
*** Heat Treatment ==> Controlled rolling ***																								
												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Sub-Size : 10 mmX7.5 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

KP001 Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE

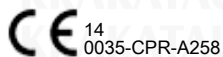
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96267601	L	0.038	0.038	0.42
	P	0.036	0.036	
*** Sub Total (010) ***			1	943 (kg)

$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
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Surveyor To :

**KP001** *Choi Jong Seog*

Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		U.S.T	Division	Chemical Composition											
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)	A			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)
15.01x2001x6000	PK96374904	1	1,415	SK80371	T	421	545	31	1: 147 2: 236 3: 224 A: 202		L P	0.1576 0.1579	0.195 0.192	1.547 1.559	0.0129 0.0128	0.0034 0.0031	0.012 0.012	0.006 0.006	0.014 0.013	0.002 0.002	35 37	0.029 0.029	0.0130 0.0130	0.005 0.005
*** Sub Total (060) ***		1	1,415 (kg)																					
*** Heat Treatment ==> Controlled rolling ***																								
15.01x2500x6000	PK96364702-4703	2	3,534	SK80352	T	420	546	29	1: 236 2: 225 3: 215 A: 225		L P	0.1542 0.1494	0.205 0.204	1.582 1.552	0.0137 0.0129	0.0042 0.0043	0.010 0.011	0.005 0.005	0.012 0.012	0.002 0.001	34 36	0.029 0.029	0.0134 0.0131	0.005 0.005
15.01x2500x6000	PK96364105	1	1,767	SK80371	T	421	545	31	1: 147 2: 236 3: 224 A: 202		L P	0.1576 0.1579	0.195 0.192	1.547 1.559	0.0129 0.0128	0.0034 0.0031	0.012 0.012	0.006 0.006	0.014 0.013	0.002 0.002	35 37	0.029 0.029	0.0130 0.0130	0.005 0.005
15.01x2500x6000	PK96364205	1	1,767	SK80371	T	421	545	31	1: 147 2: 236 3: 224 A: 202		L P	0.1576 0.1579	0.195 0.192	1.547 1.559	0.0129 0.0128	0.0034 0.0031	0.012 0.012	0.006 0.006	0.014 0.013	0.002 0.002	35 37	0.029 0.029	0.0130 0.0130	0.005 0.005
*** Sub Total (070) ***		4	7,068 (kg)																					
*** Heat Treatment ==> Controlled rolling ***																								
15.01x2500x9000	PK96364904	1	2,650	SK80287	T	403	539	32	1: 177 2: 173 3: 187 A: 179		L P	0.1609 0.1645	0.202 0.202	1.529 1.532	0.0091 0.0086	0.0048 0.0047	0.012 0.011	0.004 0.004	0.008 0.008	0.002 0.002	40 37	0.028 0.028	0.0125 0.0122	0.005 0.004

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ	
		(%)	(%)	(%)	
PK96374904	L	0.040	0.041	0.42	
	P	0.039	0.040		
*** Sub Total (060) ***			1	1,415 (kg)	CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5
PK96364702-4703	L	0.037	0.038	0.42	
	P	0.036	0.037		
PK96364105	L	0.040	0.041	0.42	
	P	0.039	0.040		
PK96364205	L	0.040	0.041	0.42	
	P	0.039	0.040		
*** Sub Total (070) ***			4	7,068 (kg)	CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5
PK96364904	L	0.036	0.039	0.42	
	P	0.037	0.039		

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
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Order No. : Q8S1025879

PO No. : D4B0269

Supplier : SUNGJIN CO., LTD.

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Customer : .

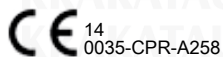
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)	C (%)			Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)	
15.01x2500x9000	PK96364802	1	2,650	SK80350	T	412	544	29	1: 186			L	0.1564	0.196	1.581	0.0141	0.0027	0.011	0.005	0.013	0.002	35	0.030	0.0123	0.006
									2: 207			P	0.1574	0.200	1.553	0.0134	0.0030	0.010	0.005	0.012	0.001	38	0.028	0.0122	0.005
15.01x2500x9000	PK96364704	1	2,650	SK80352	T	420	546	29	1: 236			L	0.1542	0.205	1.582	0.0137	0.0042	0.010	0.005	0.012	0.002	34	0.029	0.0134	0.005
									2: 225			P	0.1494	0.204	1.552	0.0129	0.0043	0.011	0.005	0.012	0.001	36	0.029	0.0131	0.005
15.01x2500x9000	PK96364402	1	2,650	SK80370	T	405	539	29	1: 221			L	0.1509	0.202	1.561	0.0122	0.0035	0.013	0.005	0.015	0.002	38	0.029	0.0119	0.007
									2: 212			P	0.1527	0.233	1.525	0.0122	0.0037	0.014	0.005	0.014	0.001	35	0.029	0.0118	0.011
15.01x2500x9000	PK96364502	1	2,650	SK80370	T	405	539	29	1: 221			L	0.1509	0.202	1.561	0.0122	0.0035	0.013	0.005	0.015	0.002	38	0.029	0.0119	0.007
									2: 212			P	0.1527	0.233	1.525	0.0122	0.0037	0.014	0.005	0.014	0.001	35	0.029	0.0118	0.011
15.01x2500x9000	PK96364602	1	2,650	SK80370	T	405	539	29	1: 221			L	0.1509	0.202	1.561	0.0122	0.0035	0.013	0.005	0.015	0.002	38	0.029	0.0119	0.007
									2: 212			P	0.1527	0.233	1.525	0.0122	0.0037	0.014	0.005	0.014	0.001	35	0.029	0.0118	0.011
15.01x2500x9000	PK96364101-4104	4	10,600	SK80371	T	421	545	31	1: 147			L	0.1576	0.195	1.547	0.0129	0.0034	0.012	0.006	0.014	0.002	35	0.029	0.0130	0.005
									2: 236			P	0.1579	0.192	1.559	0.0128	0.0031	0.012	0.006	0.013	0.002	37	0.029	0.0130	0.005
15.01x2500x9000	PK96364201-4204	4	10,600	SK80371	T	421	545	31	1: 147			L	0.1576	0.195	1.547	0.0129	0.0034	0.012	0.006	0.014	0.002	35	0.029	0.0130	0.005
									2: 236			P	0.1579	0.192	1.559	0.0128	0.0031	0.012	0.006	0.013	0.002	37	0.029	0.0130	0.005

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

KP001 Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

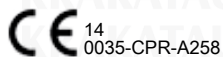
Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96364802	L	0.036	0.037	0.42
	P	0.033	0.035	
PK96364704	L	0.037	0.038	0.42
	P	0.036	0.037	
PK96364402	L	0.042	0.043	0.42
	P	0.037	0.038	
PK96364502	L	0.042	0.043	0.42
	P	0.037	0.038	
PK96364602	L	0.042	0.043	0.42
	P	0.037	0.038	
PK96364101-4104	L	0.040	0.041	0.42
	P	0.039	0.040	
PK96364201-4204	L	0.040	0.041	0.42
	P	0.039	0.040	

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
 We hereby certify that the material herein has been made in accordance with PED2014/68/EU  
 and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

**KP001** *Choi Jong Seog*



Order No. : Q8S1025879

PO No. : D4B0269

Supplier : SUNGJIN CO., LTD.

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Customer : .

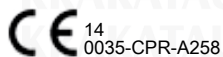
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test	U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
*** Sub Total (080) ***		14	37,100 (kg)									CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												
*** Heat Treatment ==> Controlled rolling ***																								
16x2500x9000	PK96365303-5304	2	5,652	SK80370	T	406	537	31	1: 219 2: 249 3: 221 A: 230	Good	L P	0.1509 0.1527	0.202 0.233	1.561 1.525	0.0122 0.0122	0.0035 0.0037	0.013 0.014	0.005 0.005	0.015 0.014	0.002 0.001	38 35	0.029 0.029	0.0119 0.0118	0.007 0.011
16x2500x9000	PK96365703-5704	2	5,652	SK80370	T	406	537	31	1: 219 2: 249 3: 221 A: 230	Good	L P	0.1509 0.1527	0.202 0.233	1.561 1.525	0.0122 0.0122	0.0035 0.0037	0.013 0.014	0.005 0.005	0.015 0.014	0.002 0.001	38 35	0.029 0.029	0.0119 0.0118	0.007 0.011
16x2500x9000	PK96365803-5804	2	5,652	SK80370	T	406	537	31	1: 219 2: 249 3: 221 A: 230	Good	L P	0.1509 0.1527	0.202 0.233	1.561 1.525	0.0122 0.0122	0.0035 0.0037	0.013 0.014	0.005 0.005	0.015 0.014	0.002 0.001	38 35	0.029 0.029	0.0119 0.0118	0.007 0.011
16x2500x9000	PK96365203-5204	2	5,652	SK80370	T	405	537	31	1: 253 2: 233 3: 195 A: 227	Good	L P	0.1509 0.1527	0.202 0.233	1.561 1.525	0.0122 0.0122	0.0035 0.0037	0.013 0.014	0.005 0.005	0.015 0.014	0.002 0.001	38 35	0.029 0.029	0.0119 0.0118	0.007 0.011
16x2500x9000	PK96365503-5504	2	5,652	SK80371	T	410	537	30	1: 198 2: 234 3: 228 A: 220	Good	L P	0.1576 0.1579	0.195 0.192	1.547 1.559	0.0129 0.0128	0.0034 0.0031	0.012 0.012	0.006 0.006	0.014 0.013	0.002 0.002	35 37	0.029 0.029	0.0130 0.0130	0.005 0.005
16x2500x9000	PK96365603-5604	2	5,652	SK80371	T	410	537	30	1: 198 2: 234 3: 228 A: 220	Good	L P	0.1576 0.1579	0.195 0.192	1.547 1.559	0.0129 0.0128	0.0034 0.0031	0.012 0.012	0.006 0.006	0.014 0.013	0.002 0.002	35 37	0.029 0.029	0.0130 0.0130	0.005 0.005

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* U.S.T : Ultrasonic Test.  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

KP001 Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

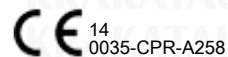
Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
*** Sub Total (080) ***			14	37,100 (kg)
				CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5
PK96365303-5304	L P	0.042 0.037	0.043 0.038	0.42
PK96365703-5704	L P	0.042 0.037	0.043 0.038	0.42
PK96365803-5804	L P	0.042 0.037	0.043 0.038	0.42
PK96365203-5204	L P	0.042 0.037	0.043 0.038	0.42
PK96365503-5504	L P	0.040 0.039	0.041 0.040	0.42
PK96365603-5604	L P	0.040 0.039	0.041 0.040	0.42

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
 We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

**KP001** Choi Jong Seog



Order No. : Q8S1025879

PO No. : D4B0269

Supplier : SUNGJIN CO., LTD.

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Customer : .

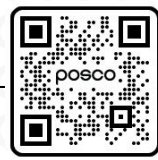
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Ultrasonic Test						Remarks
	Examination Method	Apparatus	Transducer	Frequency (MHz)	Sensitivity	Test Result	
PK96365303-5304	2	1	1	5	H	1	1. Application Spec. : EN10160(1999) S1/E1  2. We hereby certify that the material described herein has been examined in accordance with above ultrasonic specification and fully conformed thereto.
PK96365703-5704	2	1	1	5	H	1	
PK96365803-5804	2	1	1	5	H	1	
PK96365203-5204	2	1	1	5	H	1	
PK96365503-5504	2	1	1	5	H	1	
PK96365603-5604	2	1	1	5	H	1	

\* Couplant : Water  
 \* Examination method(1:Direct straight Beam, 2:Direct double beam, 3:Others)  
 \* Apparatus(1 : Digital Flaw Detector, 2: Others)  
 \* Transducer(1: φ 20 mm, 2: φ 24 mm, 3: φ 25 mm or 25 mm square, 4: φ 30 mm, 5:8~12.5 mm, 9:others)  
 \* Sensitivity(A:RB-D-1φ=50 %+10DB, B:STB-N<sub>1</sub>=50 %, C:STB-N<sub>1</sub>=70 %, D:STB-G.V<sub>1.5-4.0</sub>=50 %, E:STB-G.V<sub>1.5-4.0</sub>=80 %, F:STB-G.V<sub>1.5-2.8</sub>=50 %, G:BG=75±5 %, H: φ 5.0 mmDAC, I: φ 11.0 mmDAC, J: φ 8.0 mmDAC, K:GB-T2970 Sensitivity, L:BG=100 %, M: φ 5.0 mmFBH=60 %, N:Soviet 75ATM Sens., O:BS5996-93 Sens, P: φ 6.0 mmDAC, X:Others)  
 \* Test Result ( 1: Good, 2: Acceptable )

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test	U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
16x2500x9000	PK96365903	1	2,826	SK80371	T	413	547	29	1: 208 2: 207 3: 129 A: 181	Good	L P	0.1576 0.1579	0.195 0.192	1.547 1.559	0.0129 0.0128	0.0034 0.0031	0.012 0.012	0.006 0.006	0.014 0.013	0.002 0.002	35 37	0.029 0.029	0.0130 0.0130	0.005 0.005
*** Sub Total (100) ***		13	36,738 (kg)																					
*** Heat Treatment ==> Controlled rolling ***																								
												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* U.S.T : Ultrasonic Test.  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.

Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE

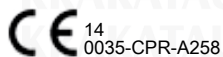
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96365903	L	0.040	0.041	0.42
	P	0.039	0.040	
*** Sub Total (100) ***			13	36,738 (kg)

$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
 We hereby certify that the material herein has been made in accordance with PED2014/68/EU  
 and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

**KP001** *Choi Jong Seog*



Order No. : Q8S1025879

PO No. : D4B0269

Supplier : SUNGJIN CO., LTD.

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Customer : .

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Ultrasonic Test						Remarks
	Examination Method	Apparatus	Transducer	Frequency (MHz)	Sensitivity	Test Result	
PK96365903 *** Sub Total (100) ***	2	13	1 36,738 (kg)	5	H	1	1. Application Spec. : EN10160(1999) S1/E1  2. We hereby certify that the material described herein has been examined in accordance with above ultrasonic specification and fully conformed thereto.

\* Couplant : Water  
 \* Examination method(1:Direct straight Beam, 2:Direct double beam, 3:Others)  
 \* Apparatus(1 : Digital Flaw Detector, 2: Others)  
 \* Transducer(1:  $\phi$  20 mm, 2:  $\phi$  24 mm, 3:  $\phi$  25 mm or 25 mm square, 4:  $\phi$  30 mm, 5:8~12.5 mm, 9:others)  
 \* Sensitivity(A:RB-D-1<sub>0</sub>=50 % +10DB, B:STB-N<sub>1</sub>=50 %, C:STB-N<sub>1</sub>=70 %, D:STB-G.V<sub>1.5-4.0</sub>=50 %, E:STB-G.V<sub>1.5-4.0</sub>=80 %, F:STB-G.V<sub>1.5-2.8</sub>=50 %, G:BG=75 $\pm$ 5 %, H:  $\phi$  5.0 mmDAC, I:  $\phi$  11.0 mmDAC, J:  $\phi$  8.0 mmDAC, K:GB-T2970 Sensitivity, L:BG=100 %, M:  $\phi$  5.0 mmFBH=60 %, N:Soviet 75ATM Sens., O:BS5996-93 Sens, P:  $\phi$  6.0 mmDAC, X:Others)  
 \* Test Result ( 1: Good, 2: Acceptable )

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

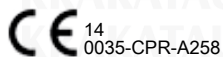
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test	U.S.T	Division	Chemical Composition														
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)		
30x2450x12000	PK96432901-2902	2	13,848	SK80334	T	379	514	31	1: 198 2: 217 3: 189 A: 201		L P	0.1560 0.1545	0.199 0.194	1.550 1.555	0.0108 0.0105	0.0033 0.0025	0.011 0.011	0.006 0.006	0.014 0.014	0.002 0.002	36 33	0.030 0.029	0.0129 0.0125	0.005 0.005		
*** Sub Total (210) ***		2	13,848 (kg)											CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												
*** Heat Treatment ==> Controlled rolling ***																										
30x2500x8000	PK96409301-9303	3	14,130	SK80335	T	396	530	29	1: 168 2: 190 3: 200 A: 186		L P	0.1585 0.1593	0.192 0.190	1.541 1.557	0.0117 0.0122	0.0037 0.0034	0.013 0.012	0.004 0.005	0.015 0.014	0.002 0.001	37 35	0.029 0.028	0.0131 0.0131	0.005 0.005		
*** Sub Total (230) ***		3	14,130 (kg)											CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												
*** Heat Treatment ==> Controlled rolling ***																										
*** Lot Total ***		38	111,242 (kg)	Lot No. ==> LOT2																						
*** Grade Total ***		38	111,242 (kg)																							

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

KP001 Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

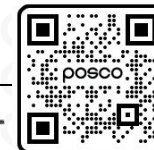
Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)	
PK96432901-2902	L P	0.042 0.039	0.044 0.041	0.42	
*** Sub Total (210) ***			2	13,848 (kg)	CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5
PK96409301-9303	L P	0.045 0.045	0.046 0.046	0.42	
*** Sub Total (230) ***			3	14,130 (kg)	CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5
*** Lot Total ***			38	111,242 (kg)	Lot No. ==> LOT2
*** Grade Total ***			38	111,242 (kg)	

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE

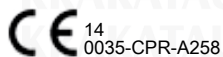
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test	U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
15.01x2500x9000	PK96526401-6402	2	5,300	SK80465	T	433	549	33	1: 240		L	0.1549	0.205	1.539	0.0103	0.0027	0.012	0.005	0.013	0.002	31	0.030	0.0129	0.005
									2: 224			P	0.1530	0.207	1.538	0.0103	0.0032	0.010	0.005	0.012	0.002	39	0.028	0.0131
*** Sub Total (080) ***									3: 266			CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												
*** Heat Treatment ==> Controlled rolling ***									A: 243															
25x2450x12000	PK96292501-2502	2	11,536	SK80332	T	403	527	30	1: 191		L	0.1554	0.198	1.551	0.0126	0.0042	0.012	0.006	0.015	0.002	37	0.030	0.0129	0.005
									2: 198			P	0.1591	0.196	1.536	0.0126	0.0031	0.011	0.006	0.015	0.001	31	0.029	0.0129
25x2450x12000	PK96292401-2402	2	11,536	SK80332	T	396	524	30	1: 168		L	0.1554	0.198	1.551	0.0126	0.0042	0.012	0.006	0.015	0.002	37	0.030	0.0129	0.005
									2: 188			P	0.1591	0.196	1.536	0.0126	0.0031	0.011	0.006	0.015	0.001	31	0.029	0.0129
*** Sub Total (160) ***									3: 191			CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												
*** Heat Treatment ==> Controlled rolling ***									A: 182															

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

KP001 Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

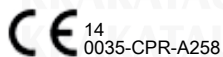
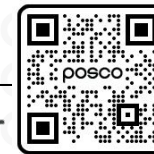
Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
PK96526401-6402	L	0.047	0.050	0.42
	P	0.048	0.049	
*** Sub Total (080) ***			2	5,300 (kg)
$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$				
PK96292501-2502	L	0.040	0.041	0.42
	P	0.039	0.040	
PK96292401-2402	L	0.040	0.041	0.42
	P	0.039	0.040	
*** Sub Total (160) ***			4	23,072 (kg)
$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$				

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

**KP001** *Choi Jong Seog*



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

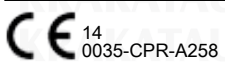
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test	U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
25x2450x12000	PK96406203	1	5,768	SK80332	T	403	527	30	1: 191	Good	L	0.1554	0.198	1.551	0.0126	0.0042	0.012	0.006	0.015	0.002	37	0.030	0.0129	0.005
									2: 198			P	0.1591	0.196	1.536	0.0126	0.0031	0.011	0.006	0.015	0.001	31	0.029	0.0129
25x2450x12000	PK96292601-2602	2	11,536	SK80332	T	396	524	30	1: 168	Good	L	0.1554	0.198	1.551	0.0126	0.0042	0.012	0.006	0.015	0.002	37	0.030	0.0129	0.005
									2: 188			P	0.1591	0.196	1.536	0.0126	0.0031	0.011	0.006	0.015	0.001	31	0.029	0.0129
*** Sub Total (170) ***		3	17,304 (kg)																					
*** Heat Treatment ==> Controlled rolling ***												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* U.S.T : Ultrasonic Test.  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

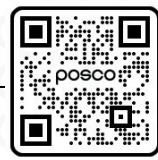
This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

KP001 Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE

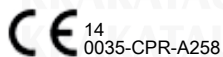
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96406203	L	0.040	0.041	0.42
	P	0.039	0.040	
PK96292601-2602	L	0.040	0.041	0.42
	P	0.039	0.040	
*** Sub Total (170) ***			3	17,304 (kg)

$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

**KP001** *Choi Jong Seog*



Order No. : Q8S1025879

PO No. : D4B0269

Supplier : SUNGJIN CO., LTD.

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Customer : .

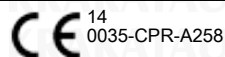
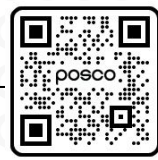
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Ultrasonic Test						Remarks
	Examination Method	Apparatus	Transducer	Frequency (MHz)	Sensitivity	Test Result	
PK96406203	2	1	1	5	H	1	1. Application Spec. : EN10160(1999) S1/E1  2. We hereby certify that the material described herein has been examined in accordance with above ultrasonic specification and fully conformed thereto.
PK96292601-2602	2	1	1	5	H	1	
*** Sub Total (170) ***		3	17,304 (kg)				

\* Couplant : Water  
 \* Examination method(1:Direct straight Beam, 2:Direct double beam, 3:Others)  
 \* Apparatus(1 : Digital Flaw Detector, 2: Others)  
 \* Transducer(1: φ 20 mm, 2: φ 24 mm, 3: φ 25 mm or 25 mm square, 4: φ 30 mm, 5:8~12.5 mm, 9:others)  
 \* Sensitivity(A:RB-D-1<sub>0</sub>=50 %+10DB, B:STB-N<sub>1</sub>=50 %, C:STB-N<sub>1</sub>=70 %, D:STB-G.V<sub>1.5-4.0</sub>=50 %, E:STB-G.V<sub>1.5-4.0</sub>=80 %, F:STB-G.V<sub>1.5-2.8</sub>=50 %, G:BG=75±5 %, H: φ 5.0 mmDAC, I: φ 11.0 mmDAC, J: φ 8.0 mmDAC, K:GB-T2970 Sensitivity, L:BG=100 %, M: φ 5.0 mmFBH=60 %, N:Soviet 75ATM Sens., O:BS5996-93 Sens, P: φ 6.0 mmDAC, X:Others)  
 \* Test Result ( 1: Good, 2: Acceptable )

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

KP001 Choi Jong Seog

Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

(42512)  
Commodity : PRIME HOT ROLLED STEEL PLATE

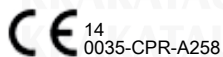
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test	U.S.T	Division	Chemical Composition														
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)		
25x2500x6000	PK96430601-0605	5	14,715	SK80332	T	403	527	30	1: 191 2: 198 3: 195 A: 195		L P	0.1554 0.1591	0.198 0.196	1.551 1.536	0.0126 0.0126	0.0042 0.0031	0.012 0.011	0.006 0.006	0.015 0.015	0.002 0.001	37 31	0.030 0.029	0.0129 0.0129	0.005 0.005		
*** Sub Total (180) ***		5	14,715 (kg)											CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												
*** Heat Treatment ==> Controlled rolling ***																										
30x2001x6000	PK96301304	1	2,828	SK80332	T	392	525	28	1: 298 2: 185 3: 224 A: 236		L P	0.1554 0.1591	0.198 0.196	1.551 1.536	0.0126 0.0126	0.0042 0.0031	0.012 0.011	0.006 0.006	0.015 0.015	0.002 0.001	37 31	0.030 0.029	0.0129 0.0129	0.005 0.005		
30x2001x6000	PK96301601-1604	4	11,312	SK80332	T	392	525	28	1: 298 2: 185 3: 224 A: 236		L P	0.1554 0.1591	0.198 0.196	1.551 1.536	0.0126 0.0126	0.0042 0.0031	0.012 0.011	0.006 0.006	0.015 0.015	0.002 0.001	37 31	0.030 0.029	0.0129 0.0129	0.005 0.005		
30x2001x6000	PK96301501-1504	4	11,312	SK80332	T	378	512	28	1: 199 2: 198 3: 182 A: 193		L P	0.1554 0.1591	0.198 0.196	1.551 1.536	0.0126 0.0126	0.0042 0.0031	0.012 0.011	0.006 0.006	0.015 0.015	0.002 0.001	37 31	0.030 0.029	0.0129 0.0129	0.005 0.005		
30x2001x6000	PK96480701-0704	4	11,312	SK80352	T	390	526	28	1: 165 2: 168 3: 155 A: 163		L P	0.1542 0.1494	0.205 0.204	1.582 1.552	0.0137 0.0129	0.0042 0.0043	0.010 0.011	0.005 0.005	0.012 0.012	0.002 0.001	34 36	0.029 0.029	0.0134 0.0131	0.005 0.005		
*** Sub Total (200) ***		13	36,764 (kg)											CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												
*** Heat Treatment ==> Controlled rolling ***																										

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
 We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

KP001 Choi Jong Seog





Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
PK96430601-0605	L	0.040	0.041	0.42
	P	0.039	0.040	
*** Sub Total (180) ***			5	14,715 (kg)
CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5				
PK96301304	L	0.040	0.041	0.42
	P	0.039	0.040	
PK96301601-1604	L	0.040	0.041	0.42
	P	0.039	0.040	
PK96301501-1504	L	0.040	0.041	0.42
	P	0.039	0.040	
PK96480701-0704	L	0.037	0.038	0.42
	P	0.036	0.037	
*** Sub Total (200) ***			13	36,764 (kg)
CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5				

This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the material herein has been made in accordance with PED2014/68/EU and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE

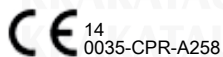
Spec & Type : EN10025-2 S355K2 N(NR) GA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test	U.S.T	Division	Chemical Composition														
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)		
50x2001x6000	PK96482102	1	4,714	SK80348	T	395	525	26	1: 95 2: 68 3: 111 A: 91		L P	0.1523 0.1589	0.202 0.207	1.465 1.480	0.0106 0.0099	0.0040 0.0033	0.011 0.012	0.005 0.005	0.014 0.014	0.001 0.002	48 30	0.046 0.048	0.0130 0.0138	0.046 0.046		
*** Sub Total (330) ***		1	4,714 (kg)											CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												
*** Heat Treatment ==> Controlled rolling ***																										
*** Lot Total ***		28	101,869 (kg)	Lot No. ==> LOT2																						
*** Grade Total ***		28	101,869 (kg)																							
*** Grand Total ***		399	1,067,703 (kg)																							
										=== Last Item ===																

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point  
 \* Impact Test. Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm  
 \* Division - L : Ladle Analysis, P : Products Analysis  
 \* Supply Condition : As-Rolled unless otherwise Heat Treated.

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Surveyor To :

KP001 Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE <sup>(42512)</sup>

Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ	
		(%)	(%)	(%)	
PK96482102	L	0.034	0.036	0.41	
	P	0.035	0.037		
*** Sub Total (330) ***				1	4,714 (kg)
*** Lot Total ***				28	101,869 (kg)
*** Grade Total ***				28	101,869 (kg)
*** Grand Total ***				399	1,067,703 (kg)

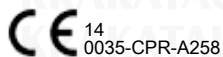
CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5

Lot No. ==> LOT2

=== Last Item ===

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.  
 This material has been made by vacuum degassing process.  
 No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1.  
 We hereby certify that the material herein has been made in accordance with PED2014/68/EU  
 and AD2000-W0 / AD2000-W1:2006 (Certificate No. 01 202 ROK/Q-16 0081).

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Surveyor To :

**KP001** *Choi Jong Seog*

