

Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

(42512)
Commodity : PRIME HOT ROLLED STEEL PLATE

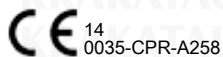
Spec & Type : EN10025-2 S355K2 N(NR) GA

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



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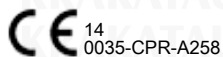
Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

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	

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.
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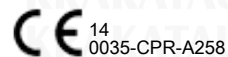
Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

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

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
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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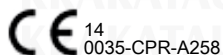
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 P	0.1529 0.1527	0.193 0.194	1.517 1.519	0.0096 0.0094	0.0033 0.0047	0.012 0.011	0.008 0.008	0.017 0.017	0.003 0.002	28 42	0.028 0.026	0.0118 0.0116	0.005 0.004		
*** Sub Total (020) ***		9	20,772 (kg)											CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												
*** Heat Treatment ==> Controlled rolling ***																										
10x2500x8000	PK96060703	1	1,570	SK80233	T	417	537	30	1: 207 2: 170 3: 178 A: 185		L P	0.1529 0.1527	0.193 0.194	1.517 1.519	0.0096 0.0094	0.0033 0.0047	0.012 0.011	0.008 0.008	0.017 0.017	0.003 0.002	28 42	0.028 0.026	0.0118 0.0116	0.005 0.004		
10x2500x8000	PK96060501-0505	5	7,850	SK80234	T	429	546	29	1: 154 2: 166 3: 85 A: 135		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		
10x2500x8000	PK96060601-0605	5	7,850	SK80234	T	429	546	29	1: 154 2: 166 3: 85 A: 135		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		
10x2500x8000	PK96060801-0805	5	7,850	SK80234	T	429	546	29	1: 154 2: 166 3: 85 A: 135		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		
*** Sub Total (030) ***		16	25,120 (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, Sub-Size : 10 mmX7.5 mm
 * Division - L : Ladle Analysis, P : Products Analysis
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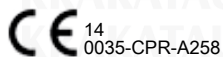
Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

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

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
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				

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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 (%)
12x2001x6000	PK96166801	1	1,131	SK80233	T	410	532	31	1: 263	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: 261		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
12x2001x6000	PK96166901	1	1,131	SK80233	T	410	532	31	1: 263	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: 261		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
12x2001x6000	PK96167001	1	1,131	SK80233	T	410	532	31	1: 263	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: 261		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
12x2001x6000	PK96167201	1	1,131	SK80233	T	410	532	31	1: 263	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: 261		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
12x2001x6000	PK96167301	1	1,131	SK80233	T	410	532	31	1: 263	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: 261		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
12x2001x6000	PK96166701	1	1,131	SK80233	T	410	533	32	1: 265	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: 259		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
12x2001x6000	PK96167101	1	1,131	SK80233	T	410	533	32	1: 265	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: 259		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, 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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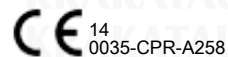
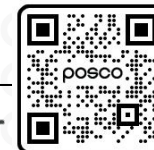
Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

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	

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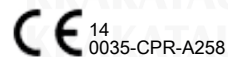
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Spec & Type : EN10025-2 S355K2 N(NR) GA

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	

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						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.



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

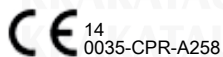
Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

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

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
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 ⁽⁴²⁵¹²⁾

Customer : .

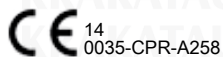
Spec & Type : EN10025-2 S355K2 N(NR) GA

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
									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	
14x2500x9000	PK96060001-0003	3	7,419	SK80237	T	411	535	30	2: 81			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
									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 (050) ***		13	32,149 (kg)												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5										
*** Heat Treatment ==> Controlled rolling ***																									
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
									P			0.1532	0.200	1.530	0.0110	0.0041	0.012	0.006	0.017	0.002	43	0.026	0.0116	0.005	
15.01x2001x6000	PK96163204	1	1,415	SK80233	T	406	533	32	2: 243			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	
15.01x2001x6000	PK96163601-3605	5	7,075	SK80236	T	406	530	28	3: 173			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
									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	
15.01x2001x6000	PK96163701-3705	5	7,075	SK80236	T	406	530	28	A: 143			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
									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	

* 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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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⁾

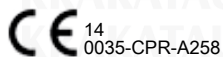
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
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

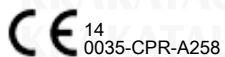
Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

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.

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PO No. : D4B0269

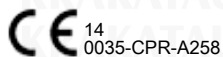
Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

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

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
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	

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 (%)	
20x2001x6000	PK96159901-9905	5	9,430	SK80237	T	403	531	29	1: 202 2: 208 3: 220 A: 210			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
												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 2: 208 3: 220 A: 210			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
												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 2: 222 3: 170 A: 198			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
												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 2: 222 3: 170 A: 198			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
												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 2: 185 3: 208 A: 201			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
												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 2: 171 3: 183 A: 177			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
												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.

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Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

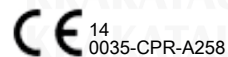
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
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.
 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⁾

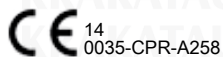
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 √A₀. (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 (%)
*** 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

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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 ⁽⁴²⁵¹²⁾

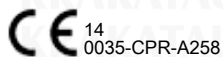
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 ⁽⁴²⁵¹²⁾

Customer : .

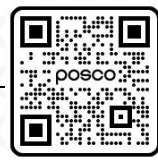
Spec & Type : EN10025-2 S355K2 N(NR) GA

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-1₀=50 %+10DB, B:STB-N₁=50 %, C:STB-N₁=70 %, D:STB-G.V_{1.5-4.0}=50 %, E:STB-G.V_{1.5-4.0}=80 %, F:STB-G.V_{1.5-2.8}=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)

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 This material has been made by vacuum degassing process.
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 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

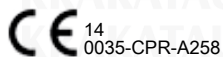
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 (%)
25x2001x6000	PK96304002-4005	4	9,424	SK80287	T	392	526	31	1: 201		L	0.1609	0.202	1.529	0.0091	0.0048	0.012	0.004	0.008	0.002	40	0.028	0.0125	0.005
									2: 199			P	0.1645	0.202	1.532	0.0086	0.0047	0.011	0.004	0.008	0.002	37	0.028	0.0122
25x2001x6000	PK96303901-3906	6	14,136	SK80287	T	388	528	29	1: 172		L	0.1609	0.202	1.529	0.0091	0.0048	0.012	0.004	0.008	0.002	40	0.028	0.0125	0.005
									2: 161			P	0.1645	0.202	1.532	0.0086	0.0047	0.011	0.004	0.008	0.002	37	0.028	0.0122
25x2001x6000	PK96304501-4506	6	14,136	SK80331	T	380	527	30	1: 216		L	0.1536	0.198	1.569	0.0137	0.0039	0.015	0.006	0.013	0.002	31	0.029	0.0128	0.005
									2: 217			P	0.1591	0.194	1.565	0.0135	0.0036	0.015	0.006	0.013	0.002	31	0.029	0.0126
25x2001x6000	PK96304601-4606	6	14,136	SK80333	T	393	529	31	1: 198		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: 198			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 (150) ***		22	51,832 (kg)																					
*** Heat Treatment ==> Controlled rolling ***													CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5											
25x2500x6000	PK96191401-1402	2	5,886	SK80139	T	369	498	29	1: 195		L	0.1525	0.194	1.527	0.0120	0.0043	0.012	0.004	0.009	0.001	52	0.030	0.0121	0.005
									2: 200			P	0.1563	0.189	1.500	0.0119	0.0040	0.013	0.004	0.009	0.001	35	0.027	0.0114
*** Sub Total (180) ***		2	5,886 (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.

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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 & 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.
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Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

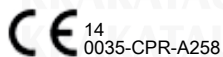
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 (%)
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.

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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)

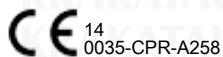
Spec & Type : EN10025-2 S355K2 N(NR) GA

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.
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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 ⁽⁴²⁵¹²⁾

Customer : .

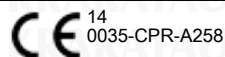
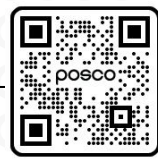
Spec & Type : EN10025-2 S355K2 N(NR) GA

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-N₁=50 %, C:STB-N₁=70 %, D:STB-G.V_{1.5-4.0}=50 %, E:STB-G.V_{1.5-4.0}=80 %, F:STB-G.V_{1.5-2.8}=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.



Surveyor To :

KP001 Choi Jong Seog

Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

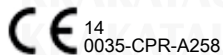
Spec & Type : EN10025-2 S355K2 N(NR) GA

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.



Surveyor To :

KP001 Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

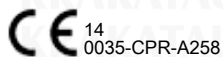
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
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 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

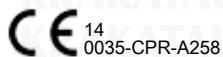
Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		U.S.T	Division	Chemical Composition											
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)	A			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)
30x2450x12000	PK96292101-2102	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.



Surveyor To :

KP001 Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE
(42512)

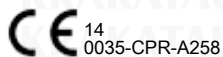
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
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
 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

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	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).

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 ⁽⁴²⁵¹²⁾

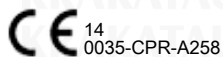
Spec & Type : EN10025-2 S355K2 N(NR) GA

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).

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 ⁽⁴²⁵¹²⁾

Customer : .

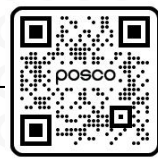
Spec & Type : EN10025-2 S355K2 N(NR) GA

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: 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-1₀=50 % +10DB, B:STB-N₁=50 %, C:STB-N₁=70 %, D:STB-G.V_{1.5-4.0}=50 %, E:STB-G.V_{1.5-4.0}=80 %, F:STB-G.V_{1.5-2.8}=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
(42512)

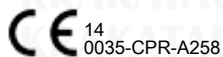
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 ⁽⁴²⁵¹²⁾

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

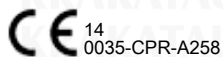
Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test		U.S.T	Division	Chemical Composition												
						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)	U.S.T			C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
35x2500x9000	PK95865901-5902	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
(42512)

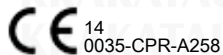
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 ⁽⁴²⁵¹²⁾

Customer : .

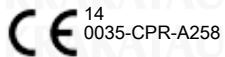
Spec & Type : EN10025-2 S355K2 N(NR) GA

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-1₀=50 %+10DB, B:STB-N₁=50 %, C:STB-N₁=70 %, D:STB-G.V_{1.5-4.0}=50 %, E:STB-G.V_{1.5-4.0}=80 %, F:STB-G.V_{1.5-2.8}=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.



Surveyor To :

KP001 Choi Jong Seog

