

Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

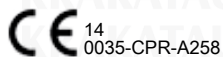
Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

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

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

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

(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	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).

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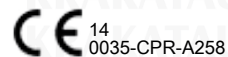
Commodity : PRIME HOT ROLLED STEEL PLATE
(42512)

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

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

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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 (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	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	PK96155601-5603	3	11,313	SK80178	T	384	523	28	1: 182 2: 209 3: 167 A: 186	Good	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	
											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	
*** 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	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	
											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	
*** 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.

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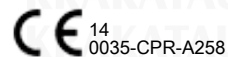
Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

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

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

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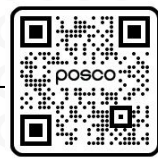
Spec & Type : EN10025-2 S355K2 N(NR) GA

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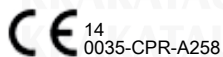
Spec & Type : EN10025-2 S355K2 N(NR) GA

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.

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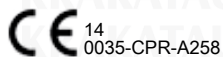
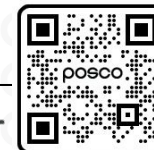
Spec & Type : EN10025-2 S355K2 N(NR) GA

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)

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

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						YP (MPa)	TS (%)	EL (%)	V Notch -20 °C Energy (Joule)				C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)
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									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.

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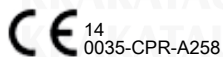
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Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96010601	L	0.037	0.037	0.42
	P	0.036	0.037	
PK96010701	L	0.037	0.037	0.42
	P	0.036	0.037	
*** Sub Total (300) ***			2	18,464 (kg)

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

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Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

Customer : .

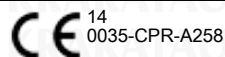
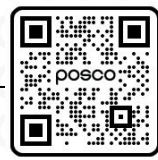
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Ultrasonic Test						Remarks
	Examination Method	Apparatus	Transducer	Frequency (MHz)	Sensitivity	Test Result	
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: 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

Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE

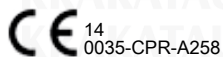
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 (%)						
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						
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						
*** Sub Total (310) ***		3	18,840 (kg)												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5																
*** Heat Treatment ==> Controlled rolling ***																															
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						
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						
*** Sub Total (320) ***		4	16,968 (kg)												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5																
*** Heat Treatment ==> Controlled rolling ***																															
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						

* 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

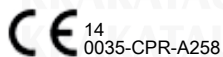
Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

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

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

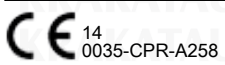
Spec & Type : EN10025-2 S355K2 N(NR) GA

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: 214			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	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: 240	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	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: 240	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	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: 161	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	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: 202	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	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: 189	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)						3: 157																
													CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												
*** Heat Treatment ==> Controlled rolling ***																									
50x2500x8000	PK96282201-2202	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				
													A: 116												

* 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.

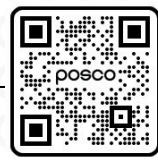
This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the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

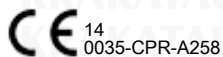
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
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.
 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)	A			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	
50x2500x8000	PK96004101	1	7,850	SK80201	T	410	525	27	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	PK96004001	1	7,850	SK80201	T	374	514	26	3: 44			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	
*** Sub Total (340) ***		6	47,100 (kg)						A: 116																	
*** Heat Treatment ==> Controlled rolling ***									1: 198																	
*** Lot Total ***		333	854,592 (kg)						2: 240																	
*** Grade Total ***		333	854,592 (kg)						3: 205																	
									A: 214																	
									1: 147																	
									2: 161																	
									3: 167																	
									A: 158																	

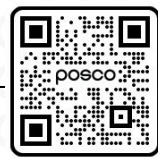
$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

Lot No. ==> LOT2

* Position - T : Top, M : Middle, B : Bottom
 * Tensile Test. Direction : Transversal, Gauge Length : 5.65 √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.



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

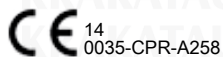
Product No.	Division	Sol-Al (%)	Total-Al (%)	CEQ (%)
PK96282301-2302	L	0.035	0.036	0.42
	P	0.032	0.034	
PK96004101	L	0.038	0.040	0.41
	P	0.036	0.038	
PK96004001	L	0.038	0.040	0.41
	P	0.036	0.038	
*** Sub Total (340) ***			6	47,100 (kg)
*** Lot Total ***			333	854,592 (kg)
*** Grade Total ***			333	854,592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

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

Lot No. ==> LOT2

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⁾

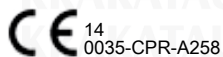
Spec & Type : EN10025-2 S355K2 N(NR) GA

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

PO No. : D4B0269

Supplier : SUNGJIN CO., LTD.

Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

Customer : .

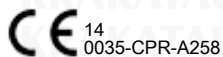
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	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.
 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

(42512)
Commodity : PRIME HOT ROLLED STEEL PLATE

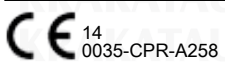
Spec & Type : EN10025-2 S355K2 N(NR) GA

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	PK96374904	1	1,415	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
*** 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		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
*** Sub Total (070) ***		4	7,068 (kg)																					
*** Heat Treatment ==> Controlled rolling ***																								
15.01x2500x9000	PK96364904	1	2,650	SK80287	T	403	539	32	1: 177		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

* 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.

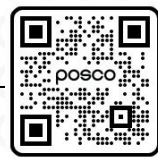
This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the 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	
		(%)	(%)	(%)	
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.
 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

PO No. : D4B0269

Supplier : SUNGJIN CO., LTD.

Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

Customer : .

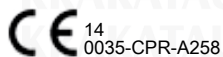
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 (%)	
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
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
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
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
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
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
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

* 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

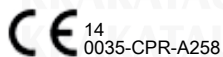
Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

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

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

Customer : .

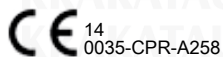
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 (%)
*** Sub Total (080) ***		14	37,100 (kg)																					
*** Heat Treatment ==> Controlled rolling ***												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												
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

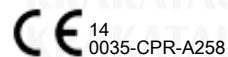
Commodity : PRIME HOT ROLLED STEEL PLATE

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	0.042	0.043	0.42
	P	0.037	0.038	
PK96365703-5704	L	0.042	0.043	0.42
	P	0.037	0.038	
PK96365803-5804	L	0.042	0.043	0.42
	P	0.037	0.038	
PK96365203-5204	L	0.042	0.043	0.42
	P	0.037	0.038	
PK96365503-5504	L	0.040	0.041	0.42
	P	0.039	0.040	
PK96365603-5604	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 ⁽⁴²⁵¹²⁾

Customer : .

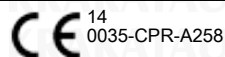
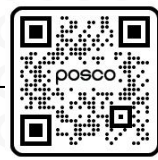
Spec & Type : EN10025-2 S355K2 N(NR) GA

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	
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-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

Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

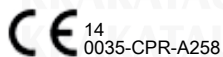
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 (%)
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).

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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⁾

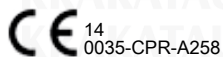
Spec & Type : EN10025-2 S355K2 N(NR) GA

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

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: 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 \pm 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 ⁽⁴²⁵¹²⁾

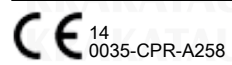
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 (%)
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)																					
*** 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)																					
*** 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.

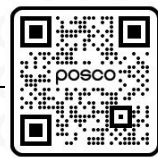
This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the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

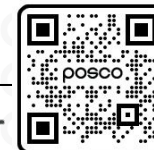
Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

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).

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Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE

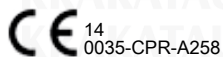
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 (%)
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
*** Sub Total (080) ***		2	5,300 (kg)						2: 224 3: 266 A: 243		P	0.1530	0.207	1.538	0.0103	0.0032	0.010	0.005	0.012	0.002	39	0.028	0.0131	0.004
*** Heat Treatment ==> Controlled rolling ***												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												
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
*** Sub Total (160) ***		4	23,072 (kg)						2: 198 3: 195 A: 195		P	0.1591	0.196	1.536	0.0126	0.0031	0.011	0.006	0.015	0.001	31	0.029	0.0129	0.005
*** Heat Treatment ==> Controlled rolling ***												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5												
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
*** Sub Total (160) ***		4	23,072 (kg)						2: 188 3: 191 A: 182		P	0.1591	0.196	1.536	0.0126	0.0031	0.011	0.006	0.015	0.001	31	0.029	0.0129	0.005
*** 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).

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Surveyor To :

KP001 Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

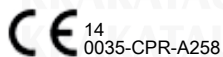
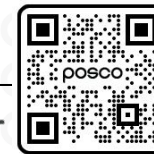
Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

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

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

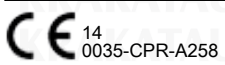
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 (%)
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.

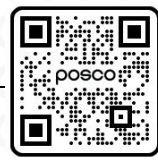
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Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



Surveyor To :

KP001 Choi Jong Seog



Order No. : Q8S1025879

Supplier : SUNGJIN CO., LTD.

Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE ⁽⁴²⁵¹²⁾

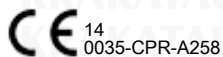
Spec & Type : EN10025-2 S355K2 N(NR) GA

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

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-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).

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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 (%)
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)																					
*** 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)																					
*** Heat Treatment ==> Controlled rolling ***																								

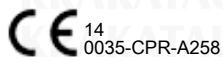
$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

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

* 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 (%)
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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Customer : .

PO No. : D4B0269

Commodity : PRIME HOT ROLLED STEEL PLATE

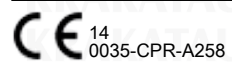
Spec & Type : EN10025-2 S355K2 N(NR) GA

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			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)																						
*** 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.

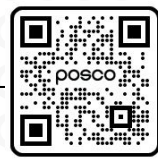
This material has been fully killed and made by basic oxygen process. This material is fine grained steel. This material has been made by vacuum degassing process. No repair welding was performed to the products. Test Certificate is issued according to ISO 10474/EN 10204 3.1. We hereby certify that the 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	
		(%)	(%)	(%)	
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)

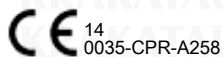
CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5

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*

