

Order No. : Q8S1025865

PO No. : HS-SZ-220331-02

Supplier : HYOSUNG TNC CORPORATION

Commodity : HOT ROLLED PLATE

Customer : SMID

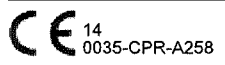
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 (%)
12x2000x6000	PK96969301-9302	2	2,260	SK80817	T	414	541	32	1: 257	Good	L	0.1588	0.209	1.549	0.0126	0.0028	0.011	0.004	0.010	0.002	30	0.031	0.0125	0.005
									2: 276			P	0.1622	0.211	1.549	0.0122	0.0028	0.011	0.004	0.009	0.001	39	0.031	0.0127
12x2000x6000	PK97078404	1	1,130	SK80873	T	413	540	29	1: 241	Good	L	0.1600	0.218	1.537	0.0122	0.0026	0.010	0.004	0.011	0.001	47	0.029	0.0113	0.005
									2: 250			P	0.1570	0.206	1.522	0.0120	0.0027	0.010	0.004	0.010	0.001	33	0.029	0.0118
12x2000x6000	PK97077304	1	1,130	SK80876	T	417	538	30	1: 253	Good	L	0.1501	0.200	1.525	0.0122	0.0036	0.012	0.005	0.012	0.002	29	0.029	0.0124	0.005
									2: 244			P	0.1542	0.198	1.510	0.0114	0.0030	0.012	0.005	0.012	0.001	36	0.028	0.0120
12x2000x6000	PK97077405-7407	3	3,390	SK80876	T	417	538	30	1: 253	Good	L	0.1501	0.200	1.525	0.0122	0.0036	0.012	0.005	0.012	0.002	29	0.029	0.0124	0.005
									2: 244			P	0.1542	0.198	1.510	0.0114	0.0030	0.012	0.005	0.012	0.001	36	0.028	0.0120
12x2000x6000	PK97077704	1	1,130	SK80876	T	417	538	30	1: 253	Good	L	0.1501	0.200	1.525	0.0122	0.0036	0.012	0.005	0.012	0.002	29	0.029	0.0124	0.005
									2: 244			P	0.1542	0.198	1.510	0.0114	0.0030	0.012	0.005	0.012	0.001	36	0.028	0.0120
12x2000x6000	PK97077804	1	1,130	SK80877	T	425	538	26	1: 248	Good	L	0.1577	0.201	1.519	0.0129	0.0033	0.010	0.005	0.010	0.002	57	0.030	0.0124	0.005
									2: 270			P	0.1559	0.195	1.513	0.0122	0.0030	0.010	0.005	0.010	0.002	36	0.028	0.0118
12x2000x6000	PK97077904	1	1,130	SK80877	T	425	538	26	1: 248	Good	L	0.1577	0.201	1.519	0.0129	0.0033	0.010	0.005	0.010	0.002	57	0.030	0.0124	0.005
									2: 270			P	0.1559	0.195	1.513	0.0122	0.0030	0.010	0.005	0.010	0.002	36	0.028	0.0118

* 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



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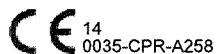
Customer : SMID

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

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96969301-9302	L	0.042	0.042	0.42
	P	0.040	0.041	
PK97078404	L	0.043	0.044	0.42
	P	0.041	0.042	
PK97077304	L	0.039	0.041	0.41
	P	0.039	0.040	
PK97077405-7407	L	0.039	0.041	0.41
	P	0.039	0.040	
PK97077704	L	0.039	0.041	0.41
	P	0.039	0.040	
PK97077804	L	0.037	0.039	0.42
	P	0.036	0.037	
PK97077904	L	0.037	0.039	0.42
	P	0.036	0.037	

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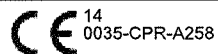
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Product No.	Ultrasonic Test						Remarks
	Examination Method	Apparatus	Transducer	Frequency (MHz)	Sensitivity	Test Result	
PK96969301-9302	2	1	1	5	H	1	1. Application Spec. : EN10160(1999) S1/E1 2. We hereby certify that the material described herein has been examined in accordance with above ultrasonic specification and fully conformed thereto.
PK97078404	2	1	1	5	H	1	
PK97077304	2	1	1	5	H	1	
PK97077405-7407	2	1	1	5	H	1	
PK97077704	2	1	1	5	H	1	
PK97077804	2	1	1	5	H	1	
PK97077904	2	1	1	5	H	1	
PK97077904	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-1_g=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.
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