

Order No. : Q8S1025865

PO No. : HS-SZ-220331-02

Supplier : HYOSUNG TNC CORPORATION

Commodity : HOT ROLLED PLATE

Customer : SMID

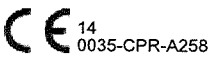
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 (%)
25x2000x6000	PK96890103	1	2,354	SK80739	T	384	517	28	1: 201	Good	L	0.1548	0.210	1.552	0.0127	0.0034	0.014	0.005	0.013	0.002	32	0.030	0.0133	0.005
									2: 194			P	0.1579	0.208	1.556	0.0119	0.0040	0.014	0.005	0.013	0.002	37	0.028	0.0128
25x2000x6000	PK97018303	1	2,354	SK80769	T	400	530	31	1: 251	Good	L	0.1536	0.203	1.545	0.0126	0.0018	0.012	0.004	0.010	0.002	32	0.028	0.0128	0.005
									2: 211			P	0.1524	0.197	1.544	0.0125	0.0017	0.012	0.004	0.009	0.002	26	0.028	0.0127
25x2000x6000	PK96880703	1	2,354	SK80770	T	404	529	28	1: 258	Good	L	0.1541	0.201	1.516	0.0122	0.0022	0.014	0.004	0.010	0.002	32	0.027	0.0124	0.005
									2: 238			P	0.1517	0.200	1.548	0.0124	0.0028	0.014	0.004	0.010	0.001	34	0.028	0.0127
25x2000x6000	PK96880803	1	2,354	SK80770	T	404	529	28	1: 258	Good	L	0.1541	0.201	1.516	0.0122	0.0022	0.014	0.004	0.010	0.002	32	0.027	0.0124	0.005
									2: 238			P	0.1517	0.200	1.548	0.0124	0.0028	0.014	0.004	0.010	0.001	34	0.028	0.0127
25x2000x6000	PK96881003	1	2,354	SK80771	T	393	530	29	1: 209	Good	L	0.1525	0.207	1.548	0.0134	0.0020	0.012	0.004	0.008	0.002	31	0.029	0.0122	0.005
									2: 207			P	0.1513	0.195	1.546	0.0140	0.0032	0.015	0.004	0.009	0.002	35	0.027	0.0118
25x2000x6000	PK96881103	1	2,354	SK80771	T	393	530	29	1: 209	Good	L	0.1525	0.207	1.548	0.0134	0.0020	0.012	0.004	0.008	0.002	31	0.029	0.0122	0.005
									2: 207			P	0.1513	0.195	1.546	0.0140	0.0032	0.015	0.004	0.009	0.002	35	0.027	0.0118
25x2000x6000	PK96880603	1	2,354	SK80772	T	401	528	30	1: 213	Good	L	0.1547	0.200	1.539	0.0123	0.0019	0.012	0.004	0.009	0.002	29	0.028	0.0129	0.005
									2: 288			P	0.1500	0.200	1.544	0.0121	0.0028	0.013	0.004	0.008	0.002	35	0.027	0.0118
									3: 227															
									A: 241															
									1: 205															
									2: 207															
									3: 200															
									A: 205															
									1: 213															
									2: 288															
									3: 285															
									A: 262															

* 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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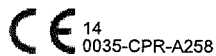
Customer : SMID

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

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96890103	L	0.036	0.038	0.42
	P	0.036	0.037	
PK97018303	L	0.047	0.047	0.42
	P	0.045	0.045	
PK96880703	L	0.043	0.044	0.41
	P	0.041	0.042	
PK96880803	L	0.043	0.044	0.41
	P	0.041	0.042	
PK96881003	L	0.039	0.040	0.42
	P	0.035	0.036	
PK96881103	L	0.039	0.040	0.42
	P	0.035	0.036	
PK96880603	L	0.048	0.048	0.42
	P	0.039	0.039	

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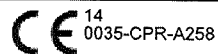
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Product No.	Ultrasonic Test						Remarks
	Examination Method	Apparatus	Transducer	Frequency (MHz)	Sensitivity	Test Result	
PK96890103	2	1	1	5	H	1	1. Application Spec. : EN10160(1999) S1/E1 2. We hereby certify that the material described herein has been examined in accordance with above ultrasonic specification and fully conformed thereto.
PK97018303	2	1	1	5	H	1	
PK96880703	2	1	1	5	H	1	
PK96880803	2	1	1	5	H	1	
PK96881003	2	1	1	5	H	1	
PK96881103	2	1	1	5	H	1	
PK96880603	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:B_G=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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