

Order No. : Q8S1025865

PO No. : HS-SZ-220331-02

Supplier : HYOSUNG TNC CORPORATION

Commodity : HOT ROLLED PLATE

Customer : SMID

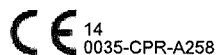
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 (%)
35x2000x6000	PK96916502	1	3,298	SK80766	T	395	528	27	1: 211	Good	L	0.1573	0.210	1.540	0.0125	0.0030	0.014	0.004	0.013	0.002	35	0.028	0.0140	0.005
									2: 216			P	0.1625	0.205	1.560	0.0118	0.0024	0.013	0.004	0.013	0.002	24	0.028	0.0141
35x2000x6000	PK96916702	1	3,298	SK80766	T	395	528	27	1: 211	Good	L	0.1573	0.210	1.540	0.0125	0.0030	0.014	0.004	0.013	0.002	35	0.028	0.0140	0.005
									2: 216			P	0.1625	0.205	1.560	0.0118	0.0024	0.013	0.004	0.013	0.002	24	0.028	0.0141
35x2000x6000	PK96916602	1	3,298	SK80766	T	414	539	27	1: 218	Good	L	0.1573	0.210	1.540	0.0125	0.0030	0.014	0.004	0.013	0.002	35	0.028	0.0140	0.005
									2: 223			P	0.1625	0.205	1.560	0.0118	0.0024	0.013	0.004	0.013	0.002	24	0.028	0.0141
35x2000x6000	PK96876202	1	3,298	SK80767	T	394	527	27	1: 244	Good	L	0.1583	0.199	1.560	0.0121	0.0028	0.012	0.004	0.010	0.002	34	0.028	0.0134	0.005
									2: 206			P	0.1571	0.192	1.556	0.0120	0.0026	0.011	0.004	0.010	0.002	27	0.028	0.0131
35x2000x6000	PK96876302	1	3,298	SK80767	T	394	527	27	1: 244	Good	L	0.1583	0.199	1.560	0.0121	0.0028	0.012	0.004	0.010	0.002	34	0.028	0.0134	0.005
									2: 206			P	0.1571	0.192	1.556	0.0120	0.0026	0.011	0.004	0.010	0.002	27	0.028	0.0131
35x2000x6000	PK96876402	1	3,298	SK80767	T	394	527	27	1: 244	Good	L	0.1583	0.199	1.560	0.0121	0.0028	0.012	0.004	0.010	0.002	34	0.028	0.0134	0.005
									2: 206			P	0.1571	0.192	1.556	0.0120	0.0026	0.011	0.004	0.010	0.002	27	0.028	0.0131
35x2000x6000	PK96876502	1	3,298	SK80767	T	394	527	27	1: 244	Good	L	0.1583	0.199	1.560	0.0121	0.0028	0.012	0.004	0.010	0.002	34	0.028	0.0134	0.005
									2: 206			P	0.1571	0.192	1.556	0.0120	0.0026	0.011	0.004	0.010	0.002	27	0.028	0.0131

* 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
 * 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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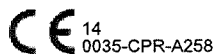
Customer : SMID

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

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96916502	L	0.041	0.041	0.42
	P	0.039	0.040	
PK96916702	L	0.041	0.041	0.42
	P	0.039	0.040	
PK96916602	L	0.041	0.041	0.42
	P	0.039	0.040	
PK96876202	L	0.041	0.041	0.42
	P	0.038	0.039	
PK96876302	L	0.041	0.041	0.42
	P	0.038	0.039	
PK96876402	L	0.041	0.041	0.42
	P	0.038	0.039	
PK96876502	L	0.041	0.041	0.42
	P	0.038	0.039	

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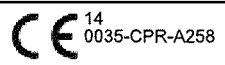
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Ultrasonic Test						Remarks
	Examination Method	Apparatus	Transducer	Frequency (MHz)	Sensitivity	Test Result	
PK96916502	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.
PK96916702	2	1	1	5	H	1	
PK96916602	2	1	1	5	H	1	
PK96876202	2	1	1	5	H	1	
PK96876302	2	1	1	5	H	1	
PK96876402	2	1	1	5	H	1	
PK96876502	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)

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