

Order No. : Q8S1025865

PO No. : HS-SZ-220331-02

Supplier : HYOSUNG TNC CORPORATION

Commodity : HOT ROLLED PLATE

Customer : SMID

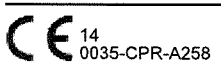
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 (%)	
45x2000x6000	PK96838601-8602	2	8,476	SK80706	T	398	526	27	1: 182 2: 110 3: 162 A: 151	Good	L P	0.1529	0.193	1.467	0.0120	0.0027	0.010	0.004	0.006	0.002	30	0.044	0.0132	0.044	
												0.1527	0.193	1.489	0.0128	0.0026	0.008	0.003	0.006	0.001	31	0.047	0.0139	0.045	
45x2000x6000	PK96838701-8702	2	8,476	SK80706	T	398	526	27	1: 182 2: 110 3: 162 A: 151	Good	L P	0.1529	0.193	1.467	0.0120	0.0027	0.010	0.004	0.006	0.002	30	0.044	0.0132	0.044	
												0.1527	0.193	1.489	0.0128	0.0026	0.008	0.003	0.006	0.001	31	0.047	0.0139	0.045	
45x2000x6000	PK96838801-8802	2	8,476	SK80706	T	398	526	27	1: 182 2: 110 3: 162 A: 151	Good	L P	0.1529	0.193	1.467	0.0120	0.0027	0.010	0.004	0.006	0.002	30	0.044	0.0132	0.044	
												0.1527	0.193	1.489	0.0128	0.0026	0.008	0.003	0.006	0.001	31	0.047	0.0139	0.045	
*** Sub Total (390) ***		6	25,428 (kg)																						
*** Heat Treatment ==> Controlled rolling ***												CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5													
50x2000x6000	PK96886301-6302	2	9,420	SK80704	T	400	526	27	1: 217 2: 196 3: 200 A: 204	Good	L P	0.1582	0.191	1.459	0.0122	0.0031	0.010	0.004	0.006	0.002	28	0.044	0.0138	0.045	
												0.1537	0.189	1.447	0.0108	0.0028	0.009	0.004	0.006	0.001	27	0.038	0.0126	0.043	
50x2000x6000	PK96779701-9702	2	9,420	SK80705	T	374	499	26	1: 166 2: 165 3: 177 A: 169	Good	L P	0.1575	0.196	1.443	0.0126	0.0024	0.010	0.006	0.006	0.002	28	0.043	0.0130	0.044	
												0.1574	0.197	1.437	0.0127	0.0015	0.009	0.006	0.006	0.002	28	0.042	0.0128	0.044	
50x2000x6000	PK96779801-9802	2	9,420	SK80705	T	374	499	26	1: 166 2: 165 3: 177 A: 169	Good	L P	0.1575	0.196	1.443	0.0126	0.0024	0.010	0.006	0.006	0.002	28	0.043	0.0130	0.044	
												0.1574	0.197	1.437	0.0127	0.0015	0.009	0.006	0.006	0.002	28	0.042	0.0128	0.044	

* 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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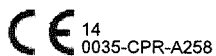
Customer : SMID

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

Product No.	Division	SoI-AI	Total-AI	CEQ
		(%)	(%)	(%)
PK96838601-8602	L	0.037	0.039	0.41
	P	0.036	0.038	
PK96838701-8702	L	0.037	0.039	0.41
	P	0.036	0.038	
PK96838801-8802	L	0.037	0.039	0.41
	P	0.036	0.038	
*** Sub Total (390) ***			6	25,428 (kg)
CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5				
PK96886301-6302	L	0.037	0.039	0.41
	P	0.036	0.037	
PK96779701-9702	L	0.036	0.039	0.41
	P	0.037	0.038	
PK96779801-9802	L	0.036	0.039	0.41
	P	0.037	0.038	

This material has been fully killed and made by basic oxygen process. This material is fine grained steel.
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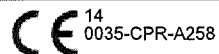
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Ultrasonic Test						Remarks
	Examination Method	Apparatus	Transducer	Frequency (MHz)	Sensitivity	Test Result	
PK96838601-8602	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.
PK96838701-8702	2	1	1	5	H	1	
PK96838801-8802	2	1	1	5	H	1	
*** Sub Total (390) ***		6	25,428 (kg)				
PK96886301-6302	2	1	1	5	H	1	
PK96779701-9702	2	1	1	5	H	1	
PK96779801-9802	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.
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