

Order No. : Q8S1025865

PO No. : HS-SZ-220331-02

Supplier : HYOSUNG TNC CORPORATION

Commodity : HOT ROLLED PLATE

Customer : SMID

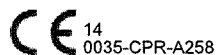
Spec & Type : EN10025-2 S355K2 N(NR) GA

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 (%)
20x2000x6000	PK96895404	1	1,884	SK80743	T	402	538	29	1: 212	Good	L	0.1576	0.210	1.535	0.0107	0.0024	0.013	0.005	0.012	0.002	31	0.031	0.0129	0.004
									2: 216			P	0.1593	0.210	1.514	0.0101	0.0018	0.012	0.005	0.012	0.002	24	0.027	0.0119
20x2000x6000	PK96895504	1	1,884	SK80743	T	402	538	29	1: 212	Good	L	0.1576	0.210	1.535	0.0107	0.0024	0.013	0.005	0.012	0.002	31	0.031	0.0129	0.004
									2: 216			P	0.1593	0.210	1.514	0.0101	0.0018	0.012	0.005	0.012	0.002	24	0.027	0.0119
20x2000x6000	PK96895604	1	1,884	SK80743	T	402	538	29	1: 212	Good	L	0.1576	0.210	1.535	0.0107	0.0024	0.013	0.005	0.012	0.002	31	0.031	0.0129	0.004
									2: 216			P	0.1593	0.210	1.514	0.0101	0.0018	0.012	0.005	0.012	0.002	24	0.027	0.0119
20x2000x6000	PK96895304	1	1,884	SK80743	T	397	530	25	1: 213	Good	L	0.1576	0.210	1.535	0.0107	0.0024	0.013	0.005	0.012	0.002	31	0.031	0.0129	0.004
									2: 201			P	0.1593	0.210	1.514	0.0101	0.0018	0.012	0.005	0.012	0.002	24	0.027	0.0119
20x2000x6000	PK96928104	1	1,884	SK80743	T	397	530	25	1: 213	Good	L	0.1576	0.210	1.535	0.0107	0.0024	0.013	0.005	0.012	0.002	31	0.031	0.0129	0.004
									2: 201			P	0.1593	0.210	1.514	0.0101	0.0018	0.012	0.005	0.012	0.002	24	0.027	0.0119
20x2000x6000	PK96927304	1	1,884	SK80744	T	385	519	27	1: 192	Good	L	0.1559	0.194	1.512	0.0107	0.0032	0.014	0.006	0.013	0.002	32	0.032	0.0114	0.004
									2: 228			P	0.1569	0.196	1.491	0.0101	0.0028	0.013	0.005	0.012	0.002	24	0.027	0.0109
20x2000x6000	PK96927404	1	1,884	SK80744	T	385	519	27	1: 192	Good	L	0.1559	0.194	1.512	0.0107	0.0032	0.014	0.006	0.013	0.002	32	0.032	0.0114	0.004
									2: 228			P	0.1569	0.196	1.491	0.0101	0.0028	0.013	0.005	0.012	0.002	24	0.027	0.0109

* 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 :

Legal stamp: KP001 Choi Jong Seog



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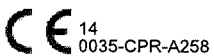
Customer : SMID

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

Product No.	Division	Sol-Al	Total-Al	CEQ
		(%)	(%)	(%)
PK96895404	L	0.045	0.047	0.42
	P	0.043	0.043	
PK96895504	L	0.045	0.047	0.42
	P	0.043	0.043	
PK96895604	L	0.045	0.047	0.42
	P	0.043	0.043	
PK96895304	L	0.045	0.047	0.42
	P	0.043	0.043	
PK96928104	L	0.045	0.047	0.42
	P	0.043	0.043	
PK96927304	L	0.040	0.042	0.41
	P	0.041	0.042	
PK96927404	L	0.040	0.042	0.41
	P	0.041	0.042	

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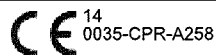
Spec & Type : EN10025-2 S355K2 N(NR) GA

Product No.	Ultrasonic Test						Remarks
	Examination Method	Apparatus	Transducer	Frequency (MHz)	Sensitivity	Test Result	
PK96895404	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.
PK96895504	2	1	1	5	H	1	
PK96895604	2	1	1	5	H	1	
PK96895304	2	1	1	5	H	1	
PK96928104	2	1	1	5	H	1	
PK96927304	2	1	1	5	H	1	
PK96927404	2	1	1	5	H	1	
PK96927404	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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