

Order No. : Q8S1025865

PO No. : HS-SZ-220331-02

Supplier : HYOSUNG TNC CORPORATION

Commodity : HOT ROLLED PLATE

Customer : SMID

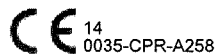
Spec & Type : EN10025-2 S355K2 N(NR) GA

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	PK96890303	1	2,354	SK80738	T	381	510	26	1: 186	Good	L	0.1565	0.202	1.541	0.0124	0.0039	0.013	0.005	0.013	0.002	29	0.029	0.0128	0.005
									2: 185			P	0.1523	0.204	1.551	0.0126	0.0041	0.013	0.005	0.013	0.002	37	0.029	0.0130
25x2000x6000	PK96927003	1	2,354	SK80738	T	381	510	26	1: 186	Good	L	0.1565	0.202	1.541	0.0124	0.0039	0.013	0.005	0.013	0.002	29	0.029	0.0128	0.005
									2: 185			P	0.1523	0.204	1.551	0.0126	0.0041	0.013	0.005	0.013	0.002	37	0.029	0.0130
25x2000x6000	PK96927103	1	2,354	SK80738	T	381	510	26	1: 186	Good	L	0.1565	0.202	1.541	0.0124	0.0039	0.013	0.005	0.013	0.002	29	0.029	0.0128	0.005
									2: 185			P	0.1523	0.204	1.551	0.0126	0.0041	0.013	0.005	0.013	0.002	37	0.029	0.0130
25x2000x6000	PK96927203	1	2,354	SK80738	T	381	510	26	1: 186	Good	L	0.1565	0.202	1.541	0.0124	0.0039	0.013	0.005	0.013	0.002	29	0.029	0.0128	0.005
									2: 185			P	0.1523	0.204	1.551	0.0126	0.0041	0.013	0.005	0.013	0.002	37	0.029	0.0130
25x2000x6000	PK96890203	1	2,354	SK80738	T	380	511	29	1: 195	Good	L	0.1565	0.202	1.541	0.0124	0.0039	0.013	0.005	0.013	0.002	29	0.029	0.0128	0.005
									2: 206			P	0.1523	0.204	1.551	0.0126	0.0041	0.013	0.005	0.013	0.002	37	0.029	0.0130
25x2000x6000	PK96890702-0704	3	7,062	SK80738	T	380	511	29	1: 195	Good	L	0.1565	0.202	1.541	0.0124	0.0039	0.013	0.005	0.013	0.002	29	0.029	0.0128	0.005
									2: 206			P	0.1523	0.204	1.551	0.0126	0.0041	0.013	0.005	0.013	0.002	37	0.029	0.0130
25x2000x6000	PK96926803	1	2,354	SK80738	T	380	511	29	1: 195	Good	L	0.1565	0.202	1.541	0.0124	0.0039	0.013	0.005	0.013	0.002	29	0.029	0.0128	0.005
									2: 206			P	0.1523	0.204	1.551	0.0126	0.0041	0.013	0.005	0.013	0.002	37	0.029	0.0130

\* Position - T : Top, M : Middle, B : Bottom  
 \* Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A<sub>0</sub>. (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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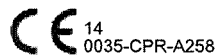
Customer : SMID

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

Product No.	Division	SoI-AI	Total-AI	CEQ
		(%)	(%)	(%)
PK96890303	L	0.043	0.045	0.42
	P	0.042	0.043	
PK96927003	L	0.043	0.045	0.42
	P	0.042	0.043	
PK96927103	L	0.043	0.045	0.42
	P	0.042	0.043	
PK96927203	L	0.043	0.045	0.42
	P	0.042	0.043	
PK96890203	L	0.043	0.045	0.42
	P	0.042	0.043	
PK96890702-0704	L	0.043	0.045	0.42
	P	0.042	0.043	
PK96926803	L	0.043	0.045	0.42
	P	0.042	0.043	

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 This material has been made by vacuum degassing process.  
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KP001 *Choi Jong Seog*



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Product No.	Ultrasonic Test						Remarks
	Examination Method	Apparatus	Transducer	Frequency (MHz)	Sensitivity	Test Result	
PK96890303	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.
PK96927003	2	1	1	5	H	1	
PK96927103	2	1	1	5	H	1	
PK96927203	2	1	1	5	H	1	
PK96890203	2	1	1	5	H	1	
PK96890702-0704	2	1	1	5	H	1	
PK96926803	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<sub>0</sub>=50 %+10DB, B:STB-N<sub>1</sub>=50 %, C:STB-N<sub>1</sub>=70 %, D:STB-G.V<sub>1.5-4.0</sub>=50 %, E:STB-G.V<sub>1.5-4.0</sub>=80 %, F:STB-G.V<sub>1.5-2.8</sub>=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. 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).

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CE<sup>14</sup> 0035-CPR-A258 Surveyor To :

KP001 Choi Jong Seog

