

Order No. : 01S5658124
Supplier : SUNGJIN CO., LTD.

PO No. : D4B0280
Commodity : PRIME HOT ROLLED STEEL PLATE

Customer : STEMCOR

Spec & Type : EN10025-2 S355K2 NR

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test		Impact Test V Notch -20 °C Energy (Joule)	Division	Chemical Composition													
						YP (MPa)	TS (MPa)			EL (%)	CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5	C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	B (ppm)	Cu (%)	Mo (%)	N (ppm)	Nb (%)
15.01x2001x6000	PP25053401-3408	8	11,320	SU87882	T	420	543	31	L P	0.1481	0.193	1.526	0.0077	0.0018	0.014	0.007	1	0.012	0.002	41	0.025	0.0131	
						2: 281	3: 235	A: 259		0.1490	0.200	1.549	0.0069	0.0016	0.015	0.008		0.012	0.002	37	0.024	0.0124	
						1: 262	2: 281	3: 235		0.1481	0.193	1.526	0.0077	0.0018	0.014	0.007	1	0.012	0.002	41	0.025	0.0131	
15.01x2001x6000	PP25053501-3508	8	11,320	SU87882	T	420	543	31	L P	0.1481	0.193	1.526	0.0077	0.0018	0.014	0.007	1	0.012	0.002	41	0.025	0.0131	
						2: 281	3: 235	A: 259		0.1490	0.200	1.549	0.0069	0.0016	0.015	0.008		0.012	0.002	37	0.024	0.0124	
						1: 262	2: 281	3: 235		0.1481	0.193	1.526	0.0077	0.0018	0.014	0.007	1	0.012	0.002	41	0.025	0.0131	
15.01x2001x6000	PP25053601-3608	8	11,320	SU87882	T	420	543	31	L P	0.1481	0.193	1.526	0.0077	0.0018	0.014	0.007	1	0.012	0.002	41	0.025	0.0131	
						2: 281	3: 235	A: 259		0.1490	0.200	1.549	0.0069	0.0016	0.015	0.008		0.012	0.002	37	0.024	0.0124	
						1: 262	2: 281	3: 235		0.1481	0.193	1.526	0.0077	0.0018	0.014	0.007	1	0.012	0.002	41	0.025	0.0131	
15.01x2001x6000	PP25053301-3308	8	11,320	SU87886	T	443	559	30	L P	0.1506	0.201	1.528	0.0091	0.0013	0.016	0.008	4	0.012	0.003	34	0.024	0.0140	
						2: 167	3: 305	A: 220		0.1574	0.210	1.543	0.0087	0.0014	0.018	0.007		0.012	0.003	42	0.026	0.0136	
						1: 189	2: 167	3: 305		0.1506	0.201	1.528	0.0091	0.0013	0.016	0.008	4	0.012	0.003	34	0.024	0.0140	
*** Sub Total (010) ***		32	45,280 (kg)																				
*** Heat Treatment ***																							
15.01x2450x12000	PP25041701-1704	4	13,852	SU87878	T	431	551	31	L P	0.1434	0.196	1.535	0.0094	0.0016	0.014	0.009	3	0.015	0.002	44	0.024	0.0147	
										0.1532	0.200	1.526	0.0088	0.0018	0.017	0.010		0.014	0.002	41	0.025	0.0133	
15.01x2450x12000	PP25041501-1504	4	13,852	SU87884	T	436	551	29	L P	0.1521	0.198	1.535	0.0076	0.0021	0.016	0.009	1	0.013	0.002	31	0.025	0.0129	
						2: 255	3: 254	A: 276		0.1502	0.201	1.535	0.0074	0.0018	0.015	0.008		0.012	0.002	34	0.024	0.0118	
						1: 308	2: 255	3: 254		0.1521	0.198	1.535	0.0076	0.0021	0.016	0.009	1	0.013	0.002	31	0.025	0.0129	

* Position - T : Top, M : Middle, B : Bottom

* Tensile Test: Direction : Transversal, Gauge Length : 5.65 √A_o (Rectangular),

YP Method : Upper Point

* Impact Test: Direction : Surface Longitudinal, Full-Size : 10 mmX10 mm

* Division - L : Ladle Analysis, P : Products Analysis

* Supply Condition : As-Rolled unless otherwise Heat Treated.

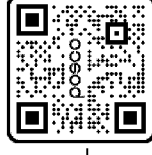
This material has been fully killed and made by basic oxygen process. This material is fine grained steel.

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 the order and above specification.

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.





Mill Test Certificate

Certificate No. : 220727-FP01KS-0012A1-0001
Date of Issue : Aug., 08, 2022

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Commodity : PRIME HOT ROLLED STEEL PLATE

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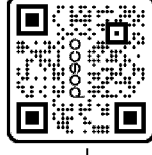
Spec & Type : EN10025-2 S355K2 NR

Product No.	Division	V (%)	Sol-Al (%)	Total-Al (%)	CEQ (%)
PP25053401-3408	L	0.002	0.026	0.026	0.41
	P	0.003	0.028	0.028	
PP25053501-3508	L	0.002	0.026	0.026	0.41
	P	0.003	0.028	0.028	
PP25053601-3608	L	0.002	0.026	0.026	0.41
	P	0.003	0.028	0.028	
PP25053301-3308	L	0.002	0.022	0.027	0.41
	P	0.002	0.027	0.028	
*** Sub Total (010) ***				32	45,280 (kg)
PP25041701-1704	L	0.002	0.027	0.027	0.40
	P	0.002	0.028	0.028	
PP25041501-1504	L	0.002	0.026	0.027	0.41
	P	0.002	0.029	0.029	

$$CEQ (G) = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$$

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.
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Legal sanction can be imposed on forging. Improper use of product can cause safety issues.



CE 0038/CPR/MUM/1210003/1 Surveyor To :

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Chief of material testing section

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