

Order No. : 01S3846244

PO No. : 01S3846244

Supplier : HANWHA CORPORATION

Commodity : PLATE

Customer : DUFERCO S.A.

Spec & Type : EN10025-2 S355J2+N

ONIRAM, LDA
 DEP. QUALIDADE
 RECEPÇÃO

DATA 08/02/11

RUBRICA

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Impact Test	Division	Chemical Composition													
						YP (MPa)	TS (%)	EL (%)	V Notch -20°C Energy (Joule)		C (%)	Si (%)	Mn (%)	P (%)	S (%)	Cr (%)	Ni (%)	B (ppm)	Cu (%)	Mo (%)	N (ppm)	Nb (%)	Ti (%)	V (%)
8x2500x12000	PC75008002-8003	2	3,768	SF17690	T	440	523	27	1: 106	L	0.0777	0.291	1.537	0.0083	0.0018	0.025	0.013	2	0.012	0.004	37	0.020	0.0122	0.002
									2: 128		P	0.0817	0.295	1.527	0.0078	0.0022	0.028	0.012	1	0.012	0.003	37	0.020	0.0121
8x2500x12000	PC75007901-7903	3	5,652	SF17690	T	433	513	30	1: 125	L	0.0777	0.291	1.537	0.0083	0.0018	0.025	0.013	2	0.012	0.004	37	0.020	0.0122	0.002
									2: 130		P	0.0817	0.295	1.527	0.0078	0.0022	0.028	0.012	1	0.012	0.003	37	0.020	0.0121
8x2500x12000	PC75008101-8102	2	3,768	SF17690	T	433	513	30	1: 125	L	0.0777	0.291	1.537	0.0083	0.0018	0.025	0.013	2	0.012	0.004	37	0.020	0.0122	0.002
									2: 130		P	0.0817	0.295	1.527	0.0078	0.0022	0.028	0.012	1	0.012	0.003	37	0.020	0.0121
8x2500x12000	PC75008201-8203	3	5,652	SF17690	T	433	513	30	1: 125	L	0.0777	0.291	1.537	0.0083	0.0018	0.025	0.013	2	0.012	0.004	37	0.020	0.0122	0.002
									2: 130		P	0.0817	0.295	1.527	0.0078	0.0022	0.028	0.012	1	0.012	0.003	37	0.020	0.0121
8x2500x12000	PC75059601-9603	3	5,652	SF17690	T	433	513	30	1: 125	L	0.0777	0.291	1.537	0.0083	0.0018	0.025	0.013	2	0.012	0.004	37	0.020	0.0122	0.002
									2: 130		P	0.0817	0.295	1.527	0.0078	0.0022	0.028	0.012	1	0.012	0.003	37	0.020	0.0121
8x2500x12000	PC75337801-7803	3	5,652	SF18005	T	459	523	33	1: 131	L	0.0806	0.307	1.537	0.0090	0.0024	0.032	0.013	1	0.010	0.004	36	0.018	0.0109	0.003
									2: 132		P	0.0771	0.309	1.548	0.0091	0.0025	0.032	0.013	1	0.011	0.003	34	0.018	0.0108
8x2500x12000	PC75337901-7903	3	5,652	SF18005	T	459	523	33	1: 131	L	0.0806	0.307	1.537	0.0090	0.0024	0.032	0.013	1	0.010	0.004	36	0.018	0.0109	0.003
									2: 132		P	0.0771	0.309	1.548	0.0091	0.0025	0.032	0.013	1	0.011	0.003	34	0.018	0.0108

- * Position - T : Top, M : Middle, B : Bottom
- * Tensile Test. Direction : Transversal, Gauge Length : 5.65 √A. (Rectangular), YP Method : Upper Point
- * Impact Test. Direction : Surface Longitudinal, Sub-Size : 10mmX5.0mm
- * Division - L : Ladle Analysis, P : Products Analysis
- * Supply Condition : As-Rolled unless otherwise Heat Treated.

We hereby certify that the material herein has been made in accordance with the order and above specification. 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 and calcium treated process. No repair welding was performed to the products. Test Certificate is issued according to EN10204 3.1. Melted and Manufactured in Republic of Korea

FAF - Produtos Siderurgicos, S.A.
 Departamento de Qualidade

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

CE 0038/CPR/MUM/0910016/1 Surveyor To :

S.S. Ahn

Order No. : 01S3846244

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Supplier : HANWHA CORPORATION

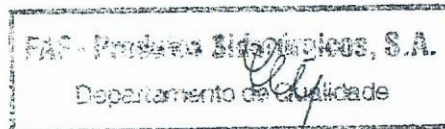
Commodity : PLATE

Customer : DUFERCO S.A.

Spec & Type : EN10025-2 S355J2+N

Product No.	Division	So-Al (%)	CEQ (%)
PC75008002-8003	L	0.034	0.34
	P	0.036	
PC75007901-7903	L	0.034	0.34
	P	0.036	
PC75008101-8102	L	0.034	0.34
	P	0.036	
PC75008201-8203	L	0.034	0.34
	P	0.036	
PC75059601-9603	L	0.034	0.34
	P	0.036	
PC75337801-7803	L	0.040	0.35
	P	0.040	
PC75337901-7903	L	0.040	0.35
	P	0.040	

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