

PLATE MILL

Issuing Date : 09/17/2005
 Vehicle No : ATW 53037
 Specification : 0.7500" x 72.000" x 240.000" / 19mm x 1829mm x 6096mm
 ASTM A36-05/ASTM A709 Grade 36-05/A5M SA36-03a

Bill No. : 108702

Load No. : 110684

Our Order No. : 37805/1

Cust. Order No. : 1003010027

Sold To : Dufenco Steel Inc
 100 Matawan Road
 Suite 400
 MATAWAN, NJ 07747

Ship To : DUFERCO STEEL C/O PLESA ANAHUAC
 Y CIAS
 FOR FURTHERANCE INTO MEXICO
 SPECIALIST IN TRANSIT FORWARDING
 LAREDO TX
 LECHERIA, MEX 54940

Marking :

Heat No	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Alz	V	Nb	Ti	N	Ca	B	Sn	CEQ	PCM
5105964	0.19	0.89	0.011	0.004	0.18	0.33	0.11	0.11	0.02	0.044	0.009	0.008	0.002	0.0085	0.0012	0.0004	0.016	0.39	0.27
5105972	0.18	0.81	0.012	0.005	0.08	0.29	0.10	0.10	0.01	0.021	0.009	0.007	0.001	0.0065	0.0008	0.0003	0.014	0.36	0.24
5105975	0.17	0.85	0.011	0.001	0.09	0.27	0.11	0.10	0.02	0.028	0.009	0.007	0.002	0.0070	0.0015	0.0003	0.012	0.36	0.24
5105976	0.18	0.85	0.013	0.009	0.09	0.27	0.11	0.09	0.01	0.037	0.009	0.007	0.001	0.0065	0.0043	0.0004	0.017	0.37	0.25
5106014	0.17	0.86	0.012	0.003	0.05	0.26	0.08	0.11	0.01	0.031	0.009	0.001	0.001	0.0070	0.0008	0.0003	0.008	0.36	0.23

Tensile Test

Plate Serial No	Places	Dir.	Yield (psi)	Tensile (psi)	Elongation % in 2"	Elongation % in 8"
5105964-57	8	T	45,300	72,600	21.5	23.8
5105972-58	7	T	40,400	68,100	23.5	22.7
5105975-13	5	T	48,400	70,700	22.9	24.5
5105976-06	6	T	42,600	69,700	20.8	25.9
5105976-07	5	T	42,600	69,700	20.8	25.9
5105976-08	2	T	42,600	69,700	20.8	25.9
5106014-13	6	T	49,100	71,500	24.1	24.3
5106014-14	5	T	49,100	71,500	24.1	24.3
5106014-15	5	T	49,100	71,500	24.1	24.1

Charpy Impacts

Dir.	1	2	3	Ave.	Size	Temp	Min Ave.
	(%) Shear	(%) Shear	(%) Shear	(%) Shear			

Manufactured to fully killed fine grain practice by Electric Arc Furnace. Welding or weld repair was not performed on this material.
 Mercury has not been used in the direct manufacturing of this material. Produced as continuous cast as-rolled discrete plate.

We hereby certify that the contents of this report are accurate and correct. All test results and operations performed by the material manufacturer are in compliance with the applicable specifications.

Yield by 0.5EUL method unless otherwise specified. Ceq = C+(Mn/6)+((Cr+Mo+V)/5)+((Cu+Ni)/15)
 Pom = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+B
 Melted and manufactured in the USA. ISO 9001-2000 certified (#12443-0) by SRI Quality System Registrar (#0985-09). PED 97/23/EC Compliant.
 DIN 50049-3.1, BIEN 10204 3.1, BR(2004) compliant. For ABS grades only. Quality Assurance certificate No. 03-MMPQA-182

T. A. Depreits, Metallurgist

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Marking :

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Plate Serial No	Pieces	Dir.	Yield (psi)	Tensile (psi)	Elongation % in 2"	Elongation % in 8"	Dir.	1	2	3	Ave.	Size	Temp Ave.	Min					
5105964	0.19	0.89	0.011	0.004	0.18	0.33	0.11	0.11	0.02	0.044	0.009	0.008	0.002	0.0085	0.0012	0.0004	0.016	0.39	0.27
5105972	0.18	0.81	0.012	0.005	0.08	0.29	0.10	0.10	0.01	0.021	0.009	0.007	0.001	0.0065	0.0008	0.0003	0.014	0.36	0.24
5105975	0.17	0.85	0.011	0.001	0.09	0.27	0.11	0.10	0.02	0.028	0.009	0.007	0.002	0.0070	0.0015	0.0003	0.012	0.36	0.24
5105976	0.18	0.85	0.013	0.009	0.09	0.27	0.11	0.09	0.01	0.037	0.009	0.007	0.001	0.0065	0.0043	0.0004	0.017	0.37	0.25
5106014	0.17	0.86	0.012	0.003	0.05	0.26	0.11	0.11	0.01	0.031	0.009	0.001	0.001	0.0070	0.0008	0.0003	0.008	0.36	0.23
T		40,600	66,100	24.3															

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 Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B
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 DIN 50049 3.1 BIEN 10204 3.1 BI(2004) compliant. For ABS grades only. Quality Assurance certificate No. 03-MMPQA-182

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5105964	0.19	0.89	0.011	0.004	0.18	0.33	0.11	0.11	0.02	0.044	0.009	0.008	0.002	0.0085	0.0012	0.0004	0.016	0.39	0.27
5105972	0.18	0.81	0.012	0.005	0.08	0.29	0.10	0.10	0.01	0.021	0.009	0.007	0.001	0.0065	0.0008	0.0003	0.014	0.36	0.24
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Metric Results Plate Serial No	Pieces	Dir.	Tensile Test			Elongation			Charpy Impacts											
			(MPa) Yield	(MPa) Tensile	(MPa) Tensile	% in 2"	% in 8"	Dir.	1	2	3	Ave.	Size	Temp	Min Ave.					
5105964-57	8	T	312	501	503	21.5	23.8													
5105972-58	7	T	279	470	463	23.5	22.7													
5105975-13	5	T	334	487	465	22.9	24.5													
5105976-06	6	T	294	481	501	20.8	25.9													
5105976-07	5	T	294	481	501	20.8	25.9													
5105976-08	2	T	294	481	501	20.8	25.9													
5106014-13	6	T	339	493	456	24.1	24.3													
5106014-14	5	T	339	493	456	24.1	24.3													
5106014-15	5	T	339	493	456	24.1	24.3													

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 Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+Sb
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