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Mill Test Report

Issuing Date : 09/17/2005
Vehicle No : ALY 91771
Specification : 0.7500" x 72.000" x 240.000" / 19mm x 1829mm x 6096mm
ASTM A36-05/ASTM A709 Grade 36-05/ASME SA36-03a

B/L No. : 108708

Load No. : 110690

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	
																				Dir.
5105970-12	0.19	0.86	0.012	0.005	0.15	0.29	0.11	0.11	0.01	0.025	0.008	0.007	0.002	0.0082	0.0014	0.0004	0.014	0.38	0.26	
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	Pieces	Dir.	(psi) Yield	(psi) Tensile	Elongation % In 2"	Elongation % In 8"														Charpy Impacts
5105970-12	5	T	49,600	71,200	22.6	25.3														
5105970-13	5	T	49,600	71,200	22.6	25.3														
5105970-14	6	T	49,600	71,200	22.6	25.3														
5105970-15	6	T	49,600	71,200	22.6	25.3														
5105976-07	1	T	42,600	69,700	20.8	25.9														
5106014-11	6	T	49,100	72,700	24.1	24.3														
5106014-12	6	T	49,100	71,500	24.1	24.1														
		T	40,600	66,100	24.3	24.3														
		T	49,100	71,500	24.1	24.1														
		T	40,600	66,100	24.3	24.3														
		T	49,100	71,500	24.1	24.1														
		T	40,600	66,100	24.3	24.3														

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.
Yield by 0.5EUL method unless otherwise specified. Ceq = C+(Mn/6)+(Cr+Mo+V)/5+(Cu+Ni)/15
Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B
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, B/EN 10204 3.1, B(2004) compliant. For ABS grades only. Quality Assurance certificate No. 03-AM/PGA-182

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.

T. A. Depretis, Metallurgist

09/20/2005 12:28:08 PM

Issuing Date: 09/17/2005 **B/L No.:** 108708 **Load No.:** 110690 **Our Order No.:** 37805/1 **Cust. Order No.:** 1003010027
Vehicle No: ALY 91771
Specification: 0.7500" x 72.000" x 240.000" / 19mm x 1829mm x 6096mm
 ASTM A36-05/ASTM A709 Grade 36-05/ASME SA36-03a

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
5105970	0.19	0.86	0.012	0.005	0.15	0.29	0.11	0.11	0.01	0.025	0.008	0.007	0.002	0.0082	0.0014	0.0004	0.014	0.38	0.26
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

Metric Results Plate Serial No	Pieces	Dir.	Tensile Test			Elongation			Charpy Impacts										
			(MPa) Yield	(MPa) Tensile	SI	% In 2"	% In 8"	Dir.	1	2	3	Ave.	Size	Temp	Min Ave.				
5105970-12	5	T	342	491	0.15	22.6	1	shear	2	shear	3	shear	Ave.	shear	Size	Temp	Min Ave.		
		T	312	492	0.09	25.3													
5105970-13	5	T	342	491	0.09	22.6													
		T	312	492	0.11	25.3													
5105970-14	6	T	342	491	0.09	22.6													
		T	312	492	0.11	25.3													
5105970-15	6	T	342	491	0.09	22.6													
		T	312	492	0.11	25.3													
5105976-07	1	T	294	481	0.08	20.8													
		T	339	501	0.09	25.9													
5106014-11	6	T	339	493	0.09	24.1													
		T	280	456	0.09	24.3													
5106014-12	6	T	339	493	0.09	24.1													
		T	280	456	0.09	24.3													

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.
 Yield by 0.5EUL method unless otherwise specified. Ceq = C+(Mn/6)+(Cr+Mo+V)/5+(Cu+Ni)/15
 Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B
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09/20/2005 12:28:08 PM

Issuing Date : 09/17/2005 B/L No. : 108708 Load No. : 110690 Our Order No. : 37805/4 Cust. Order No. : 1003010027
 Vehicle No : ALY 917771
 Specification : 1.5000" x 72.000" x 240.000" / 38mm x 1829mm x 6096mm
 ASTM A36-05/ASTM A709 Grade 56-05/ASME SA36-03a
 Sold To : Dufenco Steel Inc
 100 Matawan Road
 Suite 400
 MATAWAN, NJ 07747
 Ship To : DUFENCO 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
5105960	0.18	0.89	0.011	0.004	0.19	0.26	0.11	0.09	0.01	0.029	0.009	0.008	0.002		0.0021	0.0004	0.015	0.38	0.26
5105966	0.19	0.90	0.013	0.004	0.23	0.31	0.11	0.13	0.01	0.034	0.009	0.008	0.004		0.0008	0.0004	0.016	0.40	0.27
5105969	0.19	0.89	0.012	0.005	0.18	0.30	0.12	0.11	0.01	0.018	0.009	0.007	0.002		0.0011	0.0003	0.013	0.39	0.27

Plate Serial No	Pieces	Dir.	Tensile Test			Charpy Impacts			Size	Temp	Min Ave.
			(psi) Yield	(psi) Tensile	Elongation % in 2"	(%) shear	(%) shear	(%) shear			
5105960-11	1	T	45,100	72,100	20.8	1	shear	2			
		T	43,400	70,400	19.0						
5105966-01	1	T	42,000	71,700	18.7						
		T	43,100	69,900	18.5						
5105969-09	1	T	48,800	74,000	22.1						
		T	42,400	70,700	22.0						

Metric Results Plate Serial No	Pieces	Dir.	Tensile Test			Charpy Impacts			Size	Temp	Min Ave.
			(MPa) Yield	(MPa) Tensile	Elongation % in 2"	(%) shear	(%) shear	(%) shear			
5105960-11	1	T	311	497	20.8	1	shear	2			
		T	299	485	19.0						
5105966-01	1	T	290	494	18.7						
		T	297	482	18.5						
5105969-09	1	T	336	510	22.1						
		T	292	487	22.0						

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 Yield by 0.5EUL method unless otherwise specified. Ceq = C+(Mn/6)+((Cr+Mo+V)/5)+((Cu+Ni)/15)
 Pcm = C+(Si/30)+(Mn/20)+(Cu/20)+(Ni/60)+(Cr/20)+(Mo/15)+(V/10)+5B
 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, B/EN 10204 3.1, B1(2004) compliant. For ABS grades only. Quality Assurance certificate No. 03-MM/PGA-182
 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.
 T. A. Depretis, Metallurgist