

CERTIFIED MATERIAL TEST REPORT

Trinity Fitting Group Inc.
Hackney * Ladish * Flo-Bend

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Order Number: 4224

Date: 07/02/02

Sold to: TUBOS CONEXIONES Y TANQUES Ship to:
VALLE DE LAS ALAMEDAS NO.66 B
SAN FRANCISCO CHILPAN
TULTITLAN, ECO. DE MEXICO

Heat Code	Quantity	Description / Specifications
M2VS		6 X 3 STD ECC A/SA 234 - 00 WPB A106B 133/ 599UO NSS AS ROLLED NACE MR0175
M2WJ		6 X 3 STD ECC A/SA 234 - 00 WPB A106B 133/ 558UO NSS AS ROLLED NACE MR0175
M2MY		6 X 3 STD ECC A/SA 234 - 00 WPB A106B 133/363UO NSS AS ROLLED NACE MR0175
EF01AN		24 X 10 STD TEZ A/SA 234 - 00 WPB A106-B 9/B09163 NORM. 1650 NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
M2VS	M	.200	.880	.006	.006	.240	.220	.070	.060	.010	
M2WJ	M	.190	.890	.007	.004	.220	.210	.080	.070	.020	
M2MY	M	.140	.620	.006	.005	.210	.100	.050	.040	.010	
EF01AN	M	.160	1.020	.005	.006	.240	.010	.060	.040	.020	.0220

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	Ce
M2VS		.001			.001					.380
M2WJ		.002			.001					.376
M2MY		.001			.001					.263
EF01AN		.010	.0005	.0100	.010	.002	.002	.002	.050	.348

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
M2VS	78.3			54.7	35.6		197
M2WJ	76.7			55.0	34.9		197
M2MY	63.3			42.1	46.0		197
EF01AN	73.1	L		45.8	36.0	72.0	121.

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
M2VS						
M2WJ						
M2MY						
EF01AN						

Test: M=Mill Product
Type: L=Longitudinal

We certify that the material herein described has been manufactured, heat treated, sampled, tested, and inspected in accordance with the above standards and specifications and satisfies those requirements. We certify these flanges and fittings capable of passing a hydrostatic test compatible with their rating. The above figures are correct as contained in the records of the Company. This information has been electronically transmitted to our customer.
/S/ Glinda LaFleur