

CERTIFIED MATERIAL TEST REPORT

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

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BPCS

Order Number: 7816 (273861-002) DOC #00147015 04/03/05 Date: 03/06/04

Sold to: TUBOS CONEXIONES Y TANQUES VALLE DE LAS ALAMEDAS NO 66 B SAN FRANCISCO CHILPAN TULTITLAN EOO DE MEX 54940	Ship to: TUBOS CONEXIONES Y TANQUES 001 C/O SPECIALIST IN TRANSIT FWR 1801 MARKLEY - MODERN IND PARK LAREDO TX 78041
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Heat Code	Quantity	Description / Specifications
138WN	5	6 X 5 STD ECC A/SA 234 - 02 WPB A106B MIW 07/ R50313 HOT FORMED & A.C. NACE MR0175
180WO	1	8 X 4 STD ECC A/SA 234 - 02 WPB A106B 133/ 07/ PY0199 HOT FORMED NACE MR0175
197WO	10	8 X 5 STD ECC A/SA 234 - 02 WPB A106B MIW/ 07/ R60232 HOT FORMED NACE MR0175
243WO	15	4 X 2 1/2 STD ECC A/SA 234 - 02 WPB A106B MIW 09/ A63141 HOT FORMED NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
138WN	M	.220	.880	.007	.006	.230	.170	.070	.050	.020	
180WO	M	.190	.880	.006	.005	.220	.190	.070	.070	.030	
197WO	M	.190	.870	.006	.005	.220	.160	.080	.060	.020	
243WO	M	.200	1.070	.007	.006	.230	.020	.040	.060	.030	

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
138WN		.001			.002					.396
180WO		.001			.001					.374
197WO		.001			.010					.367
243WO		.001			.001					.400

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
138WN	75.2	L		49.5	31.3	71.2	197
180WO	76.7	T		52.5	35.6		197
197WO	74.7	T		50.1	36.7		197
243WO	79.0	L		49.5	39.0		197

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
138WN						
180WO						
197WO						
243WO						

Test: M=Mill Product
Type: L=Longitudinal T=Transverse

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