

CERTIFIED MATERIAL TEST REPORT

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

P.O. Box 568887 - 2525 Stemmons Freeway - Dallas, TX 75356 - 8887

Phone: (214) 589-8177 Fax: (214) 589-8892

BPCS

Order Number: 7027

(270473-005) DOC #00138073 03/10/10 Date: 10/11/03

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

Heat Code	Quantity	Description / Specifications	
70WN	• 15	5 X 4 STD ECC A106B 133/ 07/ P40373	A/SA 234 - 02 WPB HOT FORMED & A.C. NACE MR0175
EH01DF	• 3	12 X 8 XH CON A106-B 48/91671	A/SA 234 - 00 WPB NORM. 1650 NACE MR0175
EF03EH	• 5	10 X 6 XH CON A106-B 140/P221588	A/SA 234 - 01 WPB NORM. 1650 NACE MR0175
ED03BE	• 1	18 X 12 STD CON A106-B 9/A43085	A/SA 234 - 01 WPB NORM. 1650 NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
70WN	M	.190	.850	.005	.003	.230	.170	.070	.050	.020	
EH01DF	M	.200	.780	.007	.001	.320	.080	.040	.050	.040	.0210
EF03EH	M	.240	.470	.011	.022	.230	.030	.030	.030	< .010	.0090
ED03BE	M	.220	1.080	.013	.009	.220	.040	.050	.100	.030	.0320

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
70WN		.001			.001					.361
EH01DF	.0066	.010	.0005	.0100	.010	.006	.002	.002	.050	.358
EF03EH		< .010	<.0005	<.0100	<.010	.004	<.002	<.001	<.050	.332
ED03BE		< .010	<.0005	<.0100	<.010	.005	.005	.004	<.050	.434

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
70WN	75.7			58.2	32.8	69.1	197
EH01DF	75.0	L		47.8	34.0	67.0	131
EF03EH	76.8	L		48.2	32.0	62.0	137
ED03BE	78.2	L		46.8	37.0	73.0	140

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
70WN						
EH01DF						
EF03EH						
ED03BE						

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