

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: 6448

(267790-004) DOC #00132629 03/07/18 Date: 07/19/03

Sold to: TUBOS CONEXIONES Y TANQUES
 VALLE DE LAS ALAMEDAS NO 66 B
 SAN FRANCISCO CHILPAN
 TULTITLAN EOO DE 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
ED03BE	2	18 X 12 STD CON A/SA 234 - 01 WPB A106-B 9/A43085 NORM. 1650 NACE MR0175
ED03CE	1	24 X 16 STD CON A/SA 234 - 01 WPB A106-B 9/A60553 NORM. 1650 NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
ED03BE	M	.220	1.080	.013	.009	.220	.040	.050	.100	.030	.0320
ED03CE	M	.190	1.000	.012	.005	.210	.020	.070	.100	.020	.0360

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
ED03BE	< .010	<.0005	<.0100	<.010	.005	.005	.005	.004	<.050	.434
ED03CE	< .010	<.0005	<.0100	<.010	.002	.003	.003	.003	<.050	.388

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
ED03BE	78.2	L		46.8	37.0	73.0	140
ED03CE	82.5	L		49.9	33.0	74.0	143

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
ED03BE						
ED03CE						

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