

CERTIFIED MATERIAL TEST REPORT

5108

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: 6160

(266378-005) DOC #00132359 03/07/15 Date: 07/16/03

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
EE03CT	30	6 X 4 STD ECC A/SA 234 - 01 WPB A106-B 140/675300 NORM. 1650 NACE MR0175
583UO	3	10 X 5 STD ECC A/SA 234 - 02 WPB WPB 133/ 07/ OW0037 HOT FORMED NACE MR0175
51WN	3	16 X 8 STD ECC A/SA 234 - 02 WPB A106B 133 (09) HOT FORMED & A.C. NACE MR0175
EC03AY	3	16 X 10 STD ECC A/SA 234 - 01 WPB A106-B 9/A60163 NORM. 1650 NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
EE03CT	M	.160	.610	.017	.006	.250	.010	.020	.010	< .010	.0370
583UO	M	.200	.880	.009	.003	.250	.220	.100	.070	.020	
51WN	M	.200	1.040	.005	.008	.240	.030	.020	.040	.010	
EC03AY	M	.190	.710	.013	.007	.220	.030	.050	.090	.020	.0300

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
EE03CT		< .010	<.0005	<.0100	<.010	.002	.003	.002	<.050	.269
583UO		.002			.001					.386
51WN		.003			.001					.387
EC03AY	.0050	< .010	<.0005	<.0100	<.010	.003	<.002	<.001	<.050	.337

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
EE03CT	70.8	L		45.8	27.0	66.0	126
583UO	78.1			54.2	31.8		197
51WN	75.2			49.7	34.0	72.2	197
EC03AY	70.0	L		44.4	38.0	69.0	134

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
EE03CT						
583UO						
51WN						
EC03AY						

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