

CERTIFIED MATERIAL TEST REPORT

Trinity Fitting Group Inc.

Hackney * Ladish * Flo-Bend

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

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BPCS

Order Number: 6160

(266378-017) DOC #00130303 03/06/10 Date: 06/11/03

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
RB03AX✓	4	20 STD LR 45 DEG EL A/SA 234 - 01 WPB A106B 48 98664 AS ROLLED NACE MR0175
EC03AS✓	3	16 X 12 STD RED TEE A/SA 234 - 01 WPB 471-D 9/A43968 NORM. 1650 NACE MR0175
EF02KX✓	3	20 X 16 STD RED TEE A/SA 234 - 01 WPB A106-B 9/A41412 NORM. 1650 NACE MR0175
EB03SE✓	2	16 X 14 STD RED TEE A/SA 234 - 01 WPB 471-D 9/A43106 NORM. 1650 NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
RB03AX	M	.180	.660	.012	.002	.290	.064	.030	.050	.025	.0190
EC03AS	M	.160	1.070	.013	.008	.180	.020	.050	.070	.010	.0250
EF02KX	M	.180	1.000	.008	.005	.210	.050	.030	.070 <	.010	.0210
EB03SE	M	.170	.1110	.012	.007	.200	.040	.030	.050 <	.010	.0290

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
RB03AX		.000	.0000	.0000	.000	.004				.311
EC03AS	.0080	.067	<.0005	<.0100	<.010	.002	<.002	<.001	<.050	.372
EF02KX	.0050 <	.010	<.0005	<.0100	<.010	.004	<.002	<.001	<.050	.369
EB03SE	.0050	.066	<.0005	<.0100	<.010	.003	<.002	<.001	<.050	.384

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
RB03AX	71.7			48.0	49.0		197
EC03AS	82.0	L		56.8	35.0	73.0	156
EF02KX	73.8	L		48.2	35.0	72.0	131
EB03SE	80.2	L		50.9	35.0	74.0	143

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
RB03AX						
EC03AS						
EF02KX						
EB03SE						

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