

CERTIFIED MATERIAL TEST REPORT

Trinity Fitting Group Inc.

Hackney * Ladish * Flo-Bend

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BPCS

Order Number: 6160

(266378-001) 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
RC03DH ✓	5	20 STD LR 90 DEG EL A/SA 234 - 01 WPB A106B 48 99429 AS ROLLED NACE MR0175
EC03AI ✓	10	10 X 8 STD ECC A/SA 234 - 01 WPB A106-B 66/91492K NORM. 1650 NACE MR0175
EM02RA ✓	4	12 X 10 STD ECC A/SA 234 - 01 WPB A106-B 48/98505 NORM. 1650 NACE MR0175
EJ02MS ✓	30	6 X 3 STD ECC A/SA 234 - 01 WPB A106-B 7/P80258 NORM. 1650 NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
RC03DH	M	.160	.660	.012	.001	.290	.078	.050	.070	.044	.0180
EC03AI	M	.180	.540	.011	.009	.210	.110	.040	.040	< .010	.0120
EM02RA	M	.200	.750	.011	.006	.260	.080	.040	.040	.030	.0160
EJ02MS	M	.140	.590	.008	.006	.200	.160	.060	.050	.020	.0340

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
RC03DH		.000	.0000	.0000	.000	.004				.301
EC03AI		< .010	<.0005	<.0100	<.010	.007	<.002	<.001	<.050	.292
EM02RA	.0062	< .010	<.0005	<.0100	<.010	.005	<.002	<.001	<.050	.349
EJ02MS	.0090	< .010	<.0005	.0200	<.010	.008	<.002	<.001	<.050	.268

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
RC03DH	70.4			46.8	44.0		197
EC03AI	74.8	L		41.6	32.0	66.0	121
EM02RA	81.4	L		51.2	33.0	67.0	116
EJ02MS	66.3	L		44.4	33.0	69.0	126

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
RC03DH						
EC03AI						
EM02RA						
EJ02MS						

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