

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

Order Number: 109

(258370-005) INV #00117058 02/09/18 Date: 09/19/02

Sold to: TUBOS CONEXIONES Y TANQUES
VALLE DE LAS ALAMEDAS NO.66 B
SAN FRANCISCO CHILPAN
TULTITLAN, EOO. DE MEXICO

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
EA02TD	15	16 XH CAP A516-70 106/B1W7099 A/SA 234 - 00 WPB NORM. 1650 NACE MR0175
EL01FE	2	24 STD TEE WPBW A106-B 117/B1F611 A/SA 234 - 00 WPBW NORM. 1650 NACE MR0175
EM01FO	3	18 STD TEE A106-B 9/B09834 A/SA 234 - 00 WPB NORM. 1650 NACE MR0175
EE02JD	5	10 X 6 STD RED TEE A106-B 48/95324 A/SA 234 - 01 WPB NORM. 1650 NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
EA02TD	M	.230	1.100	.009	.006	.200	.160	.060	.050	.010	.0260
EL01FE	M	.200	1.040	.008	.004	.270	.240	.110	.100	.040	.0270
EM01FO	M	.180	1.080	.007	.007	.210	.010	.020	.050	.030	.0280
EE02JD	M	.200	.610	.010	.005	.270	.070	.040	.050	.040	.0200

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
EA02TD	.0080	.010	.0005	.0100	.010	.008	.002	.001	.050	.441
EL01FE		.010	.0005	.0300	.010	.013	.005	.002	.050	.426
EM01FO	.0050	.010	.0005	.0100	.010	.002	.002	.002	.050	.380
EE02JD	.0073	.010	.0005	.0100	.010	.005	.002	.001	.050	.328

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
EA02TD	81.5	T		56.0	36.0	67.0	159
EL01FE	81.4	L		48.6	31.0	64.0	149
EM01FO	77.8	L		51.8	34.0	72.0	140
EE02JD	73.0	L		49.4	36.0	73.0	143

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
EA02TD						
EL01FE						
EM01FO						
EE02JD						

Test: M=Mill Product

Type: T=Transverse 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

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Heat Code: EL01FE

WELDS RADIOGRAPHICALLY INSPECTED AND ACCEPTED PER
ASME SEC VIII PARA UW-51

WELD # I-30 I-31 I-32 I-33 I-34 I-35 I-36 I-37 I-38 I-39
I-40 I-41 I-42 I-43 I-44 J-44 THRU J-61