

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

(258370-011) 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	
EC02IN	2	18 X 12 STD RED TEE	A/SA 234 - 01 WPB
		A106-B 9/B27796	NORM. 1650
ED02IS	2	20 X 16 STD RED TEE	A/SA 234 - 01 WPB
		A106-B 9/B45564	NORM. 1650
EH01DR	2	24 X 20 STD RED TEE WP	A/SA 234 - 95A WPBW
		A106-B 139/G7472805	NORM. 1650
EL01FE	2	24 X 20 STD RED TEE WP	A/SA 234 - 00 WPBW
		A106-B 117/B1F611	NORM. 1650

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
EC02IN	M	.170	1.000	.003	.005	.220	.030	.020	.050	.010	.0340
ED02IS	M	.180	1.000	.007	.007	.200	.020	.030	.070	.020	.0300
EH01DR	M	.060	1.390	.006	.008	.290	.020	.020	.020	.010	.0310
EL01FE	M	.200	1.040	.008	.004	.270	.240	.110	.100	.040	.0270

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
EC02IN	.0050	.010	.0005	.0100	.010	.003	.002	.001	.050	.353
ED02IS	.0050	.010	.0005	.0100	.010	.003	.002	.001	.050	.369
EH01DR		.010	.0005	.0100	.030	.006	.002	.001	.050	.302
EL01FE		.010	.0005	.0300	.010	.013	.005	.002	.050	.426

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
EC02IN	72.6	L		47.8	37.0	75.0	137
ED02IS	74.1	L		50.2	37.0	74.0	137
EH01DR	68.2	L		47.5	38.0	78.0	121
EL01FE	81.4	L		48.6	31.0	64.0	149

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
EC02IN						
ED02IS						
EH01DR						
EL01FE						

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

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LAREDO TX 78041

Heat Code: EH01DR

WELDS RADIOGRAPHICALLY INSPECTED AND ACCEPTED PER

ASME SEC VIII PARA UW-51

WELD # H28-1, H29-1, H29-2

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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