

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: 106

(258225-008) INV #00117017 02/09/17 Date: 09/18/02

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	
EL01FD	4	24 X 20 STD RED TEE WP A/SA 234 - 00 WPBW A106-B 117/B1F756 NORM. 1650	NACE MR0175
RF01FR	2	14 STD SR 90 DEG EL A/SA 234 - 00 WPB A106B 66 72305K AS ROLLED	NACE MR0175
KC00FZ	1	2 1/2 STD X 2 XH CON A/SA 234 - 99 WPB USS 2470/009/A00249 STRESS RELIEVED	NACE MR0175
M2HR	1	20 X 14 XH ECC A/SA 234 - 00 WPB A106B 133 222UN USS NORM	NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
EL01FD	M	.180	1.010	.006	.001	.250	.200	.090	.070	.030	.0260
RF01FR	M	.163	.570	.009	.010	.250	.110	.040	.040	<.010	.0140
KC00FZ	M	.170	.730	.009	.008	.220	.020	.030	.050	.010	
M2HR	M	.220	.950	.007	.008	.230	.010	.020	.080	.020	

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
EL01FD		.010	.0005	.0200	.010	.014	.004	.002	.050	.389
RF01FR		<.010	<.0005	<.0100	<.010	.010				.280
KC00FZ		.001			.001					.307
M2HR		.003			.001					.400

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
EL01FD	79.8	L		47.1	32.0	68.0	143
RF01FR	68.4			46.6	40.4		197
KC00FZ	66.5		.999	44.0	37.0	99.9	127
M2HR	78.0			39.6	30.0	63.7	197

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
EL01FD						
RF01FR						
KC00FZ						
M2HR						

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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Heat Code: EL01FD

WELDS RADIOGRAPHICALLY INSPECTED AND ACCEPTED PER
ASME SEC VIII PARA UW-51
WELD # I-27 I-28 I-29