

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: 4515

(257500-005) INV #00115650 02/08/22 Date: 08/23/02

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
EF01AB ✓	5	12 X 10 STD RED TEE A/SA 234 - 00 WPB A106-B 9/A21086 NORM. 1650 NACE MR0175
EF01AB ✓	5	14 X 8 STD RED TEE A/SA 234 - 00 WPB A106-B 9/A21086 NORM. 1650 NACE MR0175
EJ00JW ✓	2	18 X 10 STD CON A/SA 234 - 99 WPB A106-B 9/B08374 NORM. 1650 NACE MR0175
EE01SP ✓	5	18 X 14 STD CON A/SA 234 - 00 WPB A106-B 9/B25848 NORM. 1650 NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
EF01AB	M	.170	.750	.005	.010	.210	.020	.050	.050	.020	.0270
EF01AB	M	.170	.750	.005	.010	.210	.020	.050	.050	.020	.0270
EJ00JW	M	.200	.700	.007	.007	.220	.050	.020	.100	.010	.0330
EE01SP	M	.170	.730	.006	.007	.230	.020	.030	.050	.010	.0270

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
EF01AB		.010	.0005	.0100	.010	.003	.002	.001	.050	.315
EF01AB		.010	.0005	.0100	.010	.003	.002	.001	.050	.315
EJ00JW		.010	.0005	.0100	.010	.002	.003	.003	.050	.345
EE01SP	.0000	.010	.0005	.0100	.010	.003	.003	.003	.050	.308

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
EF01AB	72.7	L		45.9	36.0	73.0	116
EF01AB	72.7	L		45.9	36.0	73.0	116
EJ00JW	68.6	L		44.5	33.0	66.0	121
EE01SP	71.2	L		42.7	37.0	71.0	141

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
EF01AB						
EF01AB						
EJ00JW						
EE01SP						

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