

**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

(258370-009) 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
EK01EY	5	12 X 6 STD RED TEE A/SA 234 - 00 WPB A106-B 9/A22872 NORM. 1650 NACE MR0175
EF01AB	5	12 X 6 STD RED TEE A/SA 234 - 00 WPB A106-B 9/A21086 NORM. 1650 NACE MR0175
EF01AO	3	14 X 12 STD RED TEE A/SA 234 - 00 WPB A106-B 9/A21018 NORM. 1650 NACE MR0175
ED01RK	2	18 X 12 STD RED TEE A/SA 234 - 00 WPB A106-B 9/A01595 NORM. 1650 NACE MR0175

**Chemical Analysis**

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
EK01EY	M	.180	.750	.003	.001	.210	.020	.030	.050	.020	.0300
EF01AB	M	.170	.750	.005	.010	.210	.020	.050	.050	.020	.0270
EF01AO	M	.180	1.040	.005	.006	.210	.030	.090	.090	.030	.0210
ED01RK	M	.180	1.160	.005	.002	.210	.010	.040	.050	.020	.0310

**Chemical Analysis (cont.)**

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
EK01EY	.0050	.010	.0005	.0100	.010	.003	.003	.002	.050	.324
EF01AB		.010	.0005	.0100	.010	.003	.002	.001	.050	.315
EF01AO		.010	.0005	.0100	.010	.003	.002	.003	.050	.387
ED01RK		.071	.0005	.0100	.010	.003	.004	.002	.050	.404

**Physical Properties**

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
EK01EY	72.9	L		45.0	38.0	73.0	116
EF01AB	72.7	L		45.9	36.0	73.0	116
EF01AO	76.6	L		48.0	35.0	71.0	126
ED01RK	78.8	L		46.6	30.0	74.0	132

**Charpy Results**

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
EK01EY						
EF01AB						
EF01AO						
ED01RK						

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