

**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

BPCS

Order Number: 7027

(270473-026) DOC #00139320 03/10/28 Date: 10/29/03

Sold to: TUBOS CONEXIONES Y TANQUES  
VALLE DE LAS ALAMEDAS NO 66 B  
SAN FRANCISCO CHILPAN  
TULTITLAN EOO DE MEX 54940

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	
EF03EL	• 5	12 X 10 STD RED TEE 471-D 9/A61324	A/SA 234 - 01 WPB AS ROLLED NACE MR0175
EK02OE	• 3	14 X 12 STD RED TEE A106-B 9/A40865	A/SA 234 - 01 WPB NORM. 1650 NACE MR0175
EB00CK	• 2	1 1/2 X 1 XH CON A106-B 66/51215K	A/SA 234 - 99 WPB NORM. 1650 NACE MR0175
872UO	3	2 X 3/4 XH CON A106B 133/ 30/ 443685	A/SA 234 - 02 WPB HOT FORMED NACE MR0175

**Chemical Analysis**

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
EF03EL	M	.160	1.110	.015	.008	.220	.030	.060	.100	.020	.0240
EK02OE	M	.210	.770	.009	.012	.210	.010	.040	.050	.010	.0260
EB00CK	M	.160	.560	.012	.009	.250	.150	.050	.060	.010	.0300
872UO	M	.210	.600	.011	.005	.240	.190	.090	.100	.030	

**Chemical Analysis (cont.)**

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
EF03EL	.0050	.068	<.0005	<.0100	<.010	.003	<.002	.002	<.050	.388
EK02OE	.0050	<.010	<.0005	<.0100	<.010	.003	<.002	<.001	<.050	.355
EB00CK		.010	.0005	.0100	.010	.013	.002	.001	.050	.282
872UO		.001			.001					.354

**Physical Properties**

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
EF03EL	82.0	L		58.0	39.0		197
EK02OE	71.2	L		44.3	34.0	70.0	126
EB00CK	67.7	L		39.7	30.0	59.0	119
872UO	75.9			51.7	31.0		197

**Charpy Results**

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
EF03EL						
EK02OE						
EB00CK						
872UO						

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