

**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: 6160

(266378-013) DOC #00130303 03/06/10 Date: 06/11/03

Sold to: TUBOS CONEXIONES Y TANQUES  
VALLE DE LAS ALAMEDAS NO 66 B  
SAN FRANCISCO CHILPAN  
TULTITLAN EOO DE 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	
KF02RA ✓	15	4 X 3 STD RED TEE A106B/009/A42067	A/SA 234 - 01 WPB STRESS RELIEVED NACE MR0175
EC03XY ✓	50	10 XH CAP A516-70 154/3100523	A/SA 234 - 01 WPB NORM. 1650 NACE MR0175
EJ99YM ✓	150	2 STD CAP A516-70 58/7470914	A/SA 234 - 99 WPB NORM. 1650 NACE MR0175
EJ99YM ✓	150	1 1/4 STD CAP A516-70 58/7470914	A/SA 234 - 99 WPB NORM. 1650 NACE MR0175

**Chemical Analysis**

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
KF02RA	M	.160	.760	.005	.007	.220	.060	.030	.060	.010	
EC03XY	M	.190	1.020	.018	.006	.180	.260	.080	.110	.010	.0330
EJ99YM	M	.200	.980	.006	.002	.240	.040	.020	.040	.010	.0420
EJ99YM	M	.200	.980	.006	.002	.240	.040	.020	.040	.010	.0420

**Chemical Analysis (cont.)**

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
KF02RA		.001			.001					.306
EC03XY		< .010	<.0005	<.0100	<.010	.010	<.002	<.001	<.050	.408
EJ99YM		.010	.0005	.0100	.010	.003	.002	.001	.050	.379
EJ99YM		.010	.0005	.0100	.010	.003	.002	.001	.050	.379

**Physical Properties**

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
KF02RA	71.5			45.9	41.0		116
EC03XY	81.9	T		53.3	32.0	64.0	149
EJ99YM	74.8	T		51.5	24.0	53.0	150
EJ99YM	74.8	T		51.5	24.0	53.0	150

**Charpy Results**

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
KF02RA						
EC03XY						
EJ99YM						
EJ99YM						

Test: M=Mill Product

Type: T=Transverse

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