

**CERTIFIED MATERIAL TEST REPORT**

Trinity Fitting Group Inc.

Hackney \* Ladish \* Flo-Bend

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BPCS

Order Number: 7816

(273861-007) DOC #00147015 04/03/05 Date: 03/06/04

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
EF03EZ	4	10 X 8 STD ECC A106-B 7/R40345 A/SA 234 - 01 WPB NORM. 1650 NACE MR0175
EL03ZY	100	3 STD CAP A516-70 106/A3W2110 A/SA 234 - 01 WPB NORM. 1650 NACE MR0175
EA04TL	10	16 STD CAP A516-70 154/3104599 A/SA 234 - 01 WPB NORM. 1650 NACE MR0175
RA04JF1	4	18 STD LR 45 DEG EL A106B 48 14609 A/SA 234 - 02 WPB AS ROLLED NACE MR0175

**Chemical Analysis**

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
EF03EZ	M	.170	.620	.003	.004	.240	.080	.050	.040	.010	.0350
EL03ZY	M	.220	1.060	.025	.011	.180	.180	.060	.040	.010	.0280
EA04TL	M	.170	1.040	.008	.002	.190	.300	.080	.100 <	.010	.0300
RA04JF1	M	.170	1.040	.014	.004	.240	.110	.070	.090	.040	.0190

**Chemical Analysis (cont.)**

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
EF03EZ	.0088	< .010	<.0005	.0300	<.010	.006	.002	.001	<.050	.293
EL03ZY		< .010	<.0005	<.0100	<.010	.011	<.002	.002	<.050	.424
EA04TL		< .010	<.0005	<.0100	<.010	.010	<.002	<.001	<.050	.392
RA04JF1		.000	.0000	.0000	.000	.009				.381

**Physical Properties**

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
EF03EZ	74.5	L		41.8	34.0	73.0	107
EL03ZY	84.2	T		58.8	27.0	62.0	151
EA04TL	82.6	T		49.3	32.0	66.0	151
RA04JF1	76.9			52.4	42.0		197

**Charpy Results**

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
EF03EZ						
EL03ZY						
EA04TL						
RA04JF1						

Test: M=Mill Product

Type: L=Longitudinal 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