

CERTIFIED MATERIAL TEST REPORT

Trinity Fitting Group Inc.

Hackney \* Ladish \* Flo-Bend

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BPCS

Order Number: 7816 (273861-006) DOC #00148022 04/03/19 Date: 03/20/04

Sold to: TUBOS CONEXIONES Y TANQUES	Ship to: TUBOS CONEXIONES Y TANQUES 001
VALLE DE LAS ALAMEDAS NO 66 B	C/O SPECIALIST IN TRANSIT FWR
SAN FRANCISCO CHILPAN	1801 MARKLEY - MODERN IND PARK
TULTITLAN EOO DE MEX 54940	LAREDO TX 78041

Heat Code	Quantity	Description / Specifications
EF03EZ	15	10 X 6 STD ECC A/SA 234 - 01 WPB A106-B 7/R40345 NORM. 1650 NACE MR0175
EL03ZZ	20	5 STD CAP A/SA 234 - 01 WPB A516-70 106/A3W2111 NORM. 1650 NACE MR0175
EA04TL	20	4 XH CAP A/SA 234 - 01 WPB A516-70 154/3104599 NORM. 1650 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
EL03ZZ	M	.220	1.050	.025	.013	.190	.200	.060	.040	.010	.0230
EA04TL	M	.170	1.040	.008	.002	.190	.300	.080	.100	<.010	.0300

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
EL03ZZ		<.010	<.0005	<.0100	<.010	.011	<.002	.002	<.050	.424
EA04TL		<.010	<.0005	<.0100	<.010	.010	<.002	<.001	<.050	.392

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
EL03ZZ	84.3	T		57.1	27.0	61.0	155
EA04TL	82.6	T		49.3	32.0	66.0	151

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
EF03EZ						
EL03ZZ						
EA04TL						

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