

**CERTIFIED MATERIAL TEST REPORT**

Trinity Fitting Group Inc.  
Hackney \* Ladish \* Flo-Bend

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BPCS

Order Number: 7027

(270473-006) 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
EJ03ZD	10	16 STD CAP A/SA 234 - 01 WPB A516-70 106/B3S6082 NORM. 1650 NACE MR0175
EH03IC	5	6 X 2 STD RED TEE A/SA 234 - 01 WPB A106-B 48/11314 NORM. 1650 NACE MR0175
EF03EZ	15	10 X 8 STD ECC A/SA 234 - 01 WPB A106-B 7/R40345 NORM. 1650 NACE MR0175
EC03AJ	15	10 X 6 STD ECC A/SA 234 - 01 WPB A106-B 66/91496K NORM. 1650 NACE MR0175

**Chemical Analysis**

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
EJ03ZD	M	.210	1.000	.016	.006	.190	.160	.070	.050	.010	.0290
EH03IC	M	.180	1.030	.020	.009	.230	.120	.100	.070	.040	.0210
EF03EZ	M	.170	.620	.003	.004	.240	.080	.050	.040	.010	.0350
EC03AJ	M	.170	.550	.011	.007	.220	.050	.030	.040	<.010	.0120

**Chemical Analysis (cont.)**

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
EJ03ZD		<.010	<.0005	<.0100	<.010	.008	<.002	.002	<.050	.405
EH03IC		<.010	<.0005	<.0100	<.010	<.008	<.002	.002	.050	.390
EF03EZ	.0088	<.010	<.0005	.0300	<.010	.006	.002	.001	<.050	.293
EC03AJ		<.010	<.0005	<.0100	<.010	.006	<.002	<.001	<.050	.278

**Physical Properties**

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
EJ03ZD	84.9	T		57.2	32.0	68.0	149
EH03IC	76.1	L		49.2	36.0	71.0	121
EF03EZ	74.5	L		41.8	34.0	73.0	107
EC03AJ	72.1	L		40.3	36.0	70.0	126

**Charpy Results**

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
EJ03ZD						
EH03IC						
EF03EZ						
EC03AJ						

Test: M=Mill Product

Type: T=Transverse 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