

**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: 7541

(272327-007) DOC #00142568 03/12/15 Date: 12/16/03

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
EG03YR	10	20 STD CAP A/SA 234 - 01 WPB A516-70 154/3101577 NORM. 1650 NACE MR0175
EH03ZB	7	24 STD CAP A/SA 234 - 01 WPB A516-70 154/3101776 NORM. 1650 NACE MR0175
ED03BZ	3	20 X 18 STD CON A/SA 234 - 01 WPB A106-B 9/A43078 NORM. 1650 NACE MR0175
EJ03JS	10	12 X 10 STD ECC A/SA 234 - 01 WPB A106-B 48/12447 NORM. 1650 NACE MR0175

**Chemical Analysis**

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
EG03YR	M	.190	.990	.013	.007	.200	.280	.080	.110	.010	.0300
EH03ZB	M	.160	.980	.020	.009	.240	.140	.070	.080	.010	.0350
ED03BZ	M	.200	1.050	.005	.004	.230	.030	.050	.040	.020	.0290
EJ03JS	M	.180	.980	.017	.008	.240	.140	.080	.080	.030	.0210

**Chemical Analysis (cont.)**

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
EG03YR		< .010	<.0005	<.0100	<.010	.011	.002	.002	<.050	.405
EH03ZB		< .010	<.0005	<.0100	<.010	.010	.002	.003	<.050	.357
ED03BZ		.010	<.0005	<.0100	<.010	.004	.002	.004	<.050	.394
EJ03JS		< .010	<.0005	<.0100	<.010	.009	<.002	.002	<.050	.381

**Physical Properties**

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
EG03YR	83.5	T		52.5	31.0	58.0	149
EH03ZB	78.6	T		53.1	31.0	67.0	143
ED03BZ	79.2	L		47.9	36.0	75.0	131
EJ03JS	81.2	L		50.0	35.0	72.0	149

**Charpy Results**

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
EG03YR						
EH03ZB						
ED03BZ						
EJ03JS						

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