

**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

Order Number: 4845

(259267-001) INV #00118927 02/10/21 Date: 10/22/02

Sold to: TUBOS CONEXIONES Y TANQUES  
VALLE DE LAS ALAMEDAS NO.66 B  
SAN FRANCISCO CHILPAN  
TULTITLAN, EOO. DE MEXICO

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
EE02TV	100	8 STD CAP A/SA 234 - 01 WPB A516-70 106/A1Y2244 NORM. 1650 NACE MR0175
EM01YZ	100	10 STD CAP A/SA 234 - 00 WPB A516-70 106/B1W7098 NORM. 1750 NACE MR0175
EG02VI	60	12 STD CAP A/SA 234 - 01 WPB A516-70 154/2102958 NORM. 1650 NACE MR0175
EM01YZ	2	16 STD CAP A/SA 234 - 00 WPB A516-70 106/B1W7098 NORM. 1750 NACE MR0175

**Chemical Analysis**

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
EE02TV	M	.230	.980	.015	.004	.210	.110	.050	.020	.010	.0240
EM01YZ	M	.240	1.110	.008	.004	.190	.150	.060	.050	.010	.0280
EG02VI	M	.190	1.040	.014	.005	.180	.260	.100	.120	.010	.0310
EM01YZ	M	.240	1.110	.008	.004	.190	.150	.060	.050	.010	.0280

**Chemical Analysis (cont.)**

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
EE02TV	.0090	.010	.0005	.0100	.010	.006	.002	.001	.050	.411
EM01YZ	.0100	.010	.0005	.0100	.010	.007	.003	.002	.050	.453
EG02VI	.0000	<.010	<.0005	<.0100	<.010	.012	<.002	.001	<.050	.415
EM01YZ	.0100	.010	.0005	.0100	.010	.007	.003	.002	.050	.453

**Physical Properties**

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
EE02TV	78.8	T		52.0	32.0	61.0	152
EM01YZ	82.7	T		42.9	30.0	65.0	137
EG02VI	77.8	T		53.4	31.0	71.0	156
EM01YZ	82.7	T		42.9	30.0	65.0	137

**Charpy Results**

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
EE02TV						
EM01YZ						
EG02VI						
EM01YZ						

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