

**CERTIFIED MATERIAL TEST REPORT**

Trinity Fitting Group Inc.

Hackney \* Ladish \* Flo-Bend

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BPCS

Order Number: 7541

(272327-005) 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				
EC03XO •	20	14 STD CAP	A/SA 234 - 01	WPB		
		A516-70 117/B2L733	NORM. 1650			NACE MR0175
EC03XT •	20	14 STD CAP	A/SA 234 - 01	WPB		
		A516-70 117/A2L186	NORM. 1650			NACE MR0175
EG03YR •	10	18 STD CAP	A/SA 234 - 01	WPB		
		A516-70 154/3101577	NORM. 1650			NACE MR0175
EJ03ZD •	10	20 STD CAP	A/SA 234 - 01	WPB		
		A516-70 106/B3S6082	NORM. 1650			NACE MR0175

**Chemical Analysis**

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
EC03XO	M	.200	.980	.015	.006	.240	.260	.100	.070	.020	.0300
EC03XT	M	.210	.980	.016	.005	.250	.310	.090	.070	.010	.0310
EG03YR	M	.190	.990	.013	.007	.200	.280	.080	.110	.010	.0300
EJ03ZD	M	.210	1.000	.016	.006	.190	.160	.070	.050	.010	.0290

**Chemical Analysis (cont.)**

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
EC03XO		< .010	<.0005	.0200	<.010	.010	<.002	.001	<.050	.407
EC03XT		< .010	<.0005	.0200	<.010	.013	<.002	<.001	<.050	.417
EG03YR		< .010	<.0005	<.0100	<.010	.011	.002	.002	<.050	.405
EJ03ZD		< .010	<.0005	<.0100	<.010	.008	<.002	.002	<.050	.405

**Physical Properties**

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
EC03XO	82.6	T		57.3	31.0	55.0	163
EC03XT	78.7	T		45.8	31.0	61.0	152
EG03YR	83.5	T		52.5	31.0	58.0	149
EJ03ZD	84.9	T		57.2	32.0	68.0	149

**Charpy Results**

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
EC03XO						
EC03XT						
EG03YR						
EJ03ZD						

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