

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: 7027

(270473-021) 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	• 5	20 STD CAP	A/SA 234 - 01	WPB	
		A516-70 106/B3S6082	NORM. 1650		NACE MR0175
ED03YD	• 3	24 XH CAP	A/SA 234 - 01	WPB	
		A516-70 154/3101017	NORM. 1650		NACE MR0175
EG03YV	• 3	18 XH CAP	A/SA 234 - 01	WPB	
		A516-70 117/E2L144	NORM. 1650		NACE MR0175
983UN	• 8	2 1/2 X 2 STD ECC	A/SA 234 - 02	WPB	
		A106B 133/ 09/ A40912	HOT FORMED & A.C.		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
ED03YD	M	.190	1.010	.011	.004	.180	.240	.090	.090	.010	.0270
EG03YV	M	.220	1.020	.020	.007	.230	.270	.130	.130	.040	.0270
983UN	M	.200	1.060	.006	.008	.230	.040	.040	.050	.010	

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
ED03YD	.0094	< .010	<.0005	<.0100	<.010	.011	.004	.003	<.050	.402
EG03YV	.9999	< .010	<.0005	.0200	<.010	.026	.005	.002	<.050	.452
983UN		.001			.001					.394

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
ED03YD	80.6	T		54.5	30.0	65.0	156
EG03YV	84.2	T		55.4	31.0	54.0	156
983UN	71.3			48.5	33.5	66.3	197

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
EJ03ZD						
ED03YD						
EG03YV						
983UN						

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