

CERTIFIED MATERIAL TEST REPORT

Trinity Fitting Group Inc.

Hackney * Ladish * Flo-Bend

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BPCS

Order Number: 7027

(270473-031) 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
EK02OG	• 3	2 X 1 XH CON A/SA 234 - 01 WPB A106-B 84/81902 NORM. 1650 NACE MR0175
92WO	• 2	4 X 1 1/2 STD CON A/SA 234 - 02 WPB A106B 133/ 09/ G31312 HOT FORMED NACE MR0175
EH03HF	• 1	8 X 3 STD CON A/SA 234 - 01 WPB A106-B 48/10217 NORM. 1650 NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
EK02OG	M	.180	.520	.008	.016	.270	.050	.040	.040	< .010	.0270
92WO	M	.200	1.090	.012	.002	.250	.190	.080	.090	.020	
EH03HF	M	.210	.690	.015	.011	.230	.020	.030	.050	.020	.0260

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
EK02OG	< .010	<.0005	<.0100	<.010	.003	<.002	<.001	<.050		.284
92WO	.002				.003					.422
EH03HF	< .010	<.0005	<.0100	<.010	.003	.004	.005	<.050		.344

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
EK02OG	70.8	L		46.6	28.0	60.0	118
92WO	83.5	L		55.0	36.0		197
EH03HF	79.3	L		43.5	34.0	71.0	111

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
EK02OG						
92WO						
EH03HF						

Test: M=Mill Product

Type: 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