

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:

Date: 05/24/02

Sold to: FERRETERA ANAHUAC, S.A. DE C.V Ship to:

VALLE DE LAS ALAMEDAS NO.66 B

SAN FRANCISCO CHILPAN

TULTITLAN, EOO. DE MEXICO

Heat Code	Quantity	Description / Specifications		
KC02QF		2 X 11/2 STD TEE	A/SA 234 - 00	WPB
		A106B/007/O90145	STRESS RELIEVED	NACE MR0175
RC02BX		24 STD RL 90	A/SA 234 - 00	WPB
		A106B 9 A40037	AS ROLLED	NACE MR0175
EM01YZ		16 STD CAP	A/SA 234 - 00	WPB
		A516-70 106/B1W7098	NORM. 1750	NACE MR0175
EH01XW		18 XH CAP	A/SA 234 - 00	WPB
		A516-70 117/A1F325	NORM. 1650	NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
KC02QF	M	.130	.670	.006	.004	.220	.120	.060	.060	.020	
RC02BX	M	.180	.750	.009	.008	.220	.010	.020	.060	.010	
EM01YZ	M	.240	1.110	.008	.004	.190	.150	.060	.050	.010	.0280
EH01XW	M	.170	.960	.005	.002	.240	.200	.110	.060	.040	.0210

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
KC02QF		.002			.001					.270
RC02BX		.005	.0001		.001					.322
EM01YZ	.0100	.010	.0005	.0100	.010	.007	.003	.002	.050	.453
EH01XW		.010	.0005	.0200	.010	.012	.003	.002	.050	.372

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
KC02QF	62.1			40.1	37.0		117
RC02BX	69.0			46.4	41.0		145
EM01YZ	82.7	T		42.9	30.0	65.0	137
EH01XW	78.8	T		50.2	33.0	69.0	143

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
KC02QF						
RC02BX						
EM01YZ						
EH01XW						

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