

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: 4224

Date: 07/02/02

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

Heat Code	Quantity	Description / Specifications	
RD01CD1	20 STD LR 45	A/SA 234 - 00 WPB	NACE MR0175
	A106B 57 89067	AS ROLLED	
KC02QF	6 X 3 STD TEE	A/SA 234 - 00 WPB	NACE MR0175
	A106B/007/090145	STRESS RELIEVED	

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
RD01CD1	M	.180	.690	.007	.001	.280	.050	.030	.030	.002	
KC02QF	M	.130	.670	.006	.004	.220	.120	.060	.060	.020	

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
RD01CD1		.000			.000					.306
KC02QF		.002			.001					.270

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
RD01CD1	70.9			45.2	41.0		157
KC02QF	62.1			40.1	37.0		117

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
RD01CD1						
KC02QF						

Test: M=Mill Product

Type:

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