

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: 109

(258370-015) INV #00117058 02/09/18 Date: 09/19/02

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

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	
RG02HK	5	20 STD LR 45 DEG EL A/SA 234 - 99 WPB A106 B 48 96564 AS ROLLED	NACE MR0175
RE01DA1H	5	20 STD LR 45 DEG EL A/SA 420 - 01 WPL6 A106B 48 89579 Q & T 1650 & 1200	NACE MR0175
RG02HL	5	20 STD LR 45 DEG EL A/SA 234 - 99 WPB A106B 48 95324 AS ROLLED	NACE MR0175
RD01CD1	1	20 STD LR 90 DEG EL A/SA 234 - 00 WPB A106B 57 89067 AS ROLLED	NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
RG02HK	M	.170	.690	.008	.003	.280	.006	.050	.050	.029	.0250
RE01DA1H	M	.180	.710	.005	.001	.300	.070	.040	.030	.007	.0240
RG02HL	M	.180	.660	.010	.002	.270	.060	.030	.050	.040	.0220
RD01CD1	M	.180	.690	.007	.001	.280	.050	.030	.030	.002	

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
RG02HK		.000			.000					.304
RE01DA1H		.000	.0000		.000					.313
RG02HL		.000			.000					.314
RD01CD1		.000			.000					.306

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
RG02HK	69.3			44.6	44.0		197
RE01DA1H	76.1	L		48.3	38.0	82.0	137
RG02HL	69.6			44.6	44.0		197
RD01CD1	70.9			45.2	41.0		197

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
RG02HK						
RE01DA1H	7.5	L	-50	181,175,179	05,084,085	100,100,100
RG02HL						
RD01CD1						

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