

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: 5529

(262585-001) INV #00124462 03/02/17 Date: 02/18/03

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
RC02BN	3	24 STD LR 45 DEG EL A/SA 234 - 01 WPB 471D 9 A40029 AS FORMED NACE MR0175
RM02RL	3	20 STD LR 90 DEG EL A/SA 234 - 01 WPB A106B 48 98378 AS ROLLED NACE MR0175
RH02KM2	3	24 STD LR 90 DEG EL A/SA 234 - 01 WPB Y56 9 A42641 AS ROLLED NACE MR0175
RC02BN	3	24 STD LR 90 DEG EL A/SA 234 - 01 WPB 471D 9 A40029 AS FORMED NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
RC02BN	M	.185	1.150	.007	.006	.190	.010	.080	.110	.030	.0230
RM02RL	M	.170	.670	.012	.002	.270	.080	.040	.070	.031	
RH02KM2	M	.184	1.100	.010	.004	.190	.020	.050	.100	.020	.0250
RC02BN	M	.185	1.150	.007	.006	.190	.010	.080	.110	.030	.0230

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
RC02BN		.070	<.0005	<.0100	<.010	.003				.424
RM02RL		.000			.000					.309
RH02KM2		.068	<.0005	<.0100	<.010	.003				.409
RC02BN		.070	<.0005	<.0100	<.010	.003				.424

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
RC02BN	81.5	L		54.5	33.0	74.0	149
RM02RL	69.3			45.7	43.0		197
RH02KM2	79.0			52.0	40.0	.0	197
RC02BN	81.5	L		54.5	33.0	74.0	149

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
RC02BN						
RM02RL						
RH02KM2	.0					
RC02BN						

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