

CERTIFIED MATERIAL TEST REPORT

212205

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: 01/18/05

Sold to: GFF INC

Ship to:

5650 EAST PONCE DE LEON
STONE MOUNTAIN GA 30083

Heat Code	Quantity	Description / Specifications	
RJ03SJ	1	STD LR 45 DEG EL A/SA 234 - 02 WPB	
		AL06B 55/ 27587 STRESS RELIEVED	NACE MR0175
RLO4MT	18	STD LR 45 DEG EL A/SA 234 - 03 WPB	
		AL06B 48 18925 AS ROLLED/ HOT FORMED	NACE MR0175
RE04RW	18	STD LR 45 DEG EL A/SA 234 - 03 WPB	
		AL06B 55 16683 AS ROLLED / HOT FORMED	NACE MR0175
EE04CI	4	STD TEE A/SA 234 - 03 WPB	
		AL06-B 55/31614 NORM. 1650	NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn*	P	S	Si	Cu	Ni	Cr	Mo	Al
RJ03SJ	M	.190	.810	.011	.002	.310	.046	.026	.030	.020	.0180
RLO4MT	M	.170	1.020	.011	.002	.230	.016	.070	.070	.050	.0200
RE04RW	M	.180	1.030	.011	.002	.220	.119	.070	.100	.030	.0200
EE04CI	M	.190	.750	.012	.010	.310	.040	.030	.040	.010	.0110

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
RJ03SJ	.0030	.001	.0001	.0030	.001	.004				.340
RLO4MT	.0000	.000	.0000	.0000	.000	.011				.369
RE04RW		.000	.0000	.0000	.000	.009				.390
EE04CI	.0030	<.010	<.0005	<.0100	<.010	.004	<.002	<.001	.050	.331

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
RJ03SJ	82.2	L	.130	62.6	33.0	57.0	79
RLO4MT	75.3			53.3	43.0		149
RE04RW	78.3			54.3	44.0		197
EE04CI	73.1	L		46.9	30.0	64.0	133

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
RJ03SJ						
RLO4MT						
RE04RW						
EE04CI						

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