

CERTIFIED MATERIAL TEST REPORT
Hackney Ladish Inc.

P.O. Box 803466 - 5495 Beltline Rd. #290 - Dallas, TX 75254
Phone: (800) 527-4500 Fax: (214) 269-5601

Order Number: 6775

Date: 09/03/09

Sold to: PLESA ANAHUAC Y CIAS S. A. DE Ship to:
VALLE DE LAS ALAMEDAS NO 66-0
TULTITLAN MEX 54940

Heat Code	Description / Specifications		
RE02XWCB	24 S/80 TEE 6AR0010 9 M45216	A/SA 234 - 07	WPBW (Welded) NACE MR0175
H08MD3BF	24 S/40 TEE 4AR0010 173 181P60110	NORM 1650 A/SA 234 - 07	WPBW (Welded) NACE MR0175
F08GNG	16 S/80 TEE X52 9 A60490	NORM 1650 A/SA 234 -	WPB (SMLS) NACE MR0175
H09JLG	18 S/80 TEE A106B 9 M00386	HOT FORMED A/SA 234 - 07	WPB (SMLS) NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
RE02XWCB	M	.166	1.170	.011	.005	.210	.010	.100	.080	.050	.0250
H08MD3BF	M	.120	1.210	.010	.005	.240	.020	.090	.100	.080	.0300
F08GNG	M	.190	1.040	.007	.003	.220	.030	.060	.080	.020	.0420
H09JLG	M	.150	.940	.008	.004	.180	.070	.040	.050	.100	.0300

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
RE02XWCB		.066	<.0005	<.0100	<.010	.019				.407
H08MD3BF	.0050	.070	<.0005	<.0100	<.010					.378
F08GNG		.030	.0002	.0020	.001					.395
H09JLG		.029	.0002	.0010	.000					.349

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
RE02XWCB	74.3			44.7	33.0	68.0	121
H08MD3BF	75.0	L		48.8	33.0	71.0	147
F08GNG	77.5	L		52.0	34.0	73.0	143
H09JLG	68.5	L		45.7	38.0	73.0	139

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
RE02XWCB	.0					
H08MD3BF						
F08GNG						
H09JLG						

Test: M=Mill Product
Type: L=Longitudinal

We certify that the material herein described has been manufactured in accordance with the above standards and specifications and satisfies all the requirements of the editions specified. We certify all materials provided comply with ISO 10204 paragraph. 3.1 which replaces type 3.1.B of the 1991 edition of EN 10204. Our ISO9001:2000 certificate number is CERT11763-2007-AQ-HOU-RVA/ANAB. We certify these fittings capable of passing 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.

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Heat Code: RE02XWCB

WELDS RADIOGRAPHICALLY INSPECTED AND ACCEPTED PER
ASME SEC VIII PARA UW-51
WELD # E49-1,-2

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Heat Code: H08MD3BF

WELDS RADIOGRAPHICALLY INSPECTED AND ACCEPTED PER
ASME SEC VIII PARA UW-51
WELD # D4-4, -5