

CERTIFIED MATERIAL TEST REPORT
Hackney Ladish Inc.

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Phone: (800) 527-4500 Fax: (214) 269-5601

Order Number: 5030

Date: 03/12/09

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		
A09YA	5 PCS. 12 X 6 STD TEE	A/SA 234 - 07 WPB (SMLS)	
	A106B 175 086405	HOT FORMED	NACE MR0175
H08NCS	10 PCS 8 X 4 STD ECC	A/SA 234 - 07 WPB (SMLS)	
	TRI-47 57 40569	STRESS RELIEVED	NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
A09YA	M	.200	1.000	.015	.005	.240	.050	.020	.030	.010	.0180
H08NCS	M	.170	1.060	.010	.004	.240	.120	.070	.080	.038	.0230

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
A09YA		< .010	<.0005	<.0100	<.005					.381
H08NCS	.0066	.000	.0000	.0000	.000	.008				.382

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
A09YA	76.9	L		45.7	42.0		156
H08NCS	67.0	L		42.6	38.0		154

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
A09YA						
H08NCS						

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.