

CERTIFIED MATERIAL TEST REPORT  
Hackney Ladish Inc.

708 South Elmira Avenue - Russellville, AR 72802  
Phone: (800) 527-4500 Fax: (479) 964-6231

Heat Code Description / Specifications

A08XMS	RED-ES-8-4STD	A/SA 234 - 07	WPB (SMLS)
	TM47 57 37098	STRESS RELIEVED	NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
A08XMS	M	.170	1.100	.015	.002	.240	.131	.070	.070	.031	.0250

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
A08XMS	.0071	.000	.0000	.0000	.000	.008				.386

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
A08XMS	76.0	L		51.0	31.0	68.0	153

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
A08XMS						

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 ISO 9001:2008 certificate number is CERT-11763-2007-USA-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.