

CERTIFIED MATERIAL TEST REPORT
Hackney Ladish Inc.

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Heat Code Description / Specifications

H07HSS	RED CONC 18 X 10 STD	A/SA 234 - 07	WPB (SMLS)
	A106B 9 A22101	STRESS RELIEVED	NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
H07HSS	M	.180	1.030	.011	.004	.180	.050	.030	.070	.030	.0330

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
H07HSS		.003	.0003	.0020	.001					.377

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
H07HSS	69.0	L		37.6	36.0	72.0	123

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
H07HSS						

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.