

CERTIFIED MATERIAL TEST REPORT  
Hackney Ladish Inc.

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Heat Code	Quantity	Description / Specifications
307TDS		10-6 STD RED ES A/SA 234 - 06A WPB (SMLS) A106B 57 31363 STRESS RELIEVED NACE MR0175
307FX		12 XS TAP A/SA 234 - 07 WPB (SMLS) A516-70 154 7103514 HOT FORMED NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
307TDS	M	.160	1.030	.007	.002	.250	.121	.070	.090	.037	.0240
307FX	M	.190	1.030	.013	.001	.170	.240	.070	.090	.000	.0240

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
307TDS	.0072	.000	.0000		.000	.008				.369
307FX	.0080	.003	.0001	.0010	.001	.009				.400

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
307TDS	68.0	L		44.7	35.0		142
307FX	77.4	T		50.9	25.0		156

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
307TDS						
307FX						

Test: M=Mill Product  
Type: L Longitudinal T=Transverse

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.