

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

Heat Code	Quantity	Description / Specifications
A07NT1		18" STD 45 ELL A/SA 234 - 06A WPB (SMLS) A106B 180 3603674 HOT FORMED NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
A07NT1	M	.130	1.110	.015	.003	.260	.020	.010	.020	.000	

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
A07NT1		.030		.0020	.002					.327

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
A07NT1	76.1			51.3	35.0		146

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
A07NT1						

Test: M=Mill Product
Type:

We certify that the material herein described has been manufactured in