

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

Order Number: 2165

Date: 12/14/06

Sold to: FERRETERA ANAHUAC, SA DE CV Ship to:
VALLE DE LAS ALAMEDAS NO 66 B
SAN FRANCISCO CHILPAN
TULTITLAN EOO DE 54940

Heat Code	Quantity	Description / Specifications
34ZO		8 X 5 STD ECC RED A/SA 234 - 06 WPB (SMLS) A106B MIW 07/ U60458 HOT FORMED NACE MR0175
C06LTS		12 X 8 STD ECC RED A/SA 234 - 05A WPB (SMLS) TRI-47 57 25884 STRESS RELIEVED NACE MR0175
32ZO		12 X 6 STD ECC RED A/SA 234 - 06 WPB (SMLS) A106B MIW/09/ U21042 HOT FORMED NACE MR0175
34ZO		8 X 4 STD ECC RED A/SA 234 - 06 WPB (SMLS) A106B MIW 07/ U60458 HOT FORMED NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
34ZO	M	.200	.680	.006	.004	.180	.180	.070	.070	.010	
C06LTS	M	.170	1.030	.010	.001	.230	.126	.070	.080	.036	.0250
32ZO	M	.200	1.040	.007	.006	.190	.030	.010	.030	.020	
34ZO	M	.200	.680	.006	.004	.180	.180	.070	.070	.010	

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
34ZO		.001	.0001	.0010	.001					.346
C06LTS	.0084	.000	.0000	.0000	.000	.006				.377
32ZO		.003	.0001	.0020	.002					.386
34ZO		.001	.0001	.0010	.001					.346

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
34ZO	72.7	L		48.4	37.9		137
C06LTS	71.0	L		49.8	33.0	70.0	137
32ZO	76.5	L		52.0	42.0		169
34ZO	72.7	L		48.4	37.9		137

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
34ZO						
C06LTS						
32ZO						
34ZO						

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 latest editions unless otherwise noted. We certify these fittings capable of passing a hydrostatic test compatible with their rating.