



CHARTER STEEL

A Division of Charter Manufacturing Company, Inc.

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CHARTER STEEL TEST REPORT

Reverse Has Text And Codes

Lake Erie Products
3595 West State Road 28
Frankfort, IN 46041-6708
Attn: John Shambora

Cust. P.O.	44826
Cust Part#	G336082/A325CORTEN
Charter Sales Order	207268
Heat #	405900
Ship Lot #	333677
Grade#	A325 M SK FG RHQ
Process	HR
Finish Size	1-9/32

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed below and on the reverse side, and that it satisfies those requirements.

Test Results of Heat Lot# 405900

LAB CODE: 7388	C	MN	P	S	SI	NI	CR	MO	CU	SN	V	
Chemistry	0.36	0.98	0.016	0.012	0.240	0.33	0.51	0.01	0.32	0.009	0.001	
Wt%												
	AL	N	B	TI	NB							
	0.024	0.0080	0.0001	0.001	0.002							
Jominy (HRC)	JOM01	JOM02	JOM03	JOM04	JOM05	JOM06	JOM07	JOM08	JOM09	JOM10	JOM11	JOM12
	56	53	51	49	44	41	37	35	33	31	29	29
	JOM13	JOM14	JOM15	JOM16	JOM18	JOM20	JOM22	JOM24	JOM26	JOM28	JOM30	JOM32
	29	27	27	28	28	26	25	24	24	23	21	21

JOMINY SAMPLE TYPE ENGLISH = B JOMINY LAB = 0358-01 DI = 2.67
CHEM. DEVIATION EXT.-GREEN = N/R

Test Results of Rolling Lot # 333677

	# of Tests	Min Value	Max Value	Mean Value	
ROCKWELL B (HRBW)	1	93	93	93	RB LAB = 0358-02
ROCKWELL C (HRC)	0	0	0	0	RC LAB = N/R
ROD SIZE (Inches)	4	1.277	1.285	1.281	ASTA29 = Y
ROD OUT OF ROUND (Inches)	1	0.008	0.008	0.008	

NUM DECARB = 1 FREE FERRITE DECARB = 0.000 AVE DECARB = 0.004
QC DEVIATION EXT.-GREEN = N/R

Test Results of Processing Lot #

Specifications: Meets customer specifications with any applicable Charter Steel exceptions for the following customer documents:
Customer Document = LE 1.1 Revision = 7 Dated = 12-FEB-2004

Additional Comments: FINE GRAIN; TEST NOT REQUIRED IF ALUMINUM .020% OR GREATER.
MEETS REQUIREMENTS OF A325 TYPE 3, CLASS A.



Tim Leahy
Manager of Quality Assurance
03/30/2006