



Slater Steels Corporation

Fort Wayne Specialty Alloys Division
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Product Certification Report

Report Number: **3335090**

74298
 Certified on Apr 07, 2003 Page 1 of 1

Slater Order I.D. 0303858 004		Order Date 2/22/03	Commodity Code 6010	Melt Date 1/28/03
Dim 1 2.1250	Dim 2 .0000	Dim 3 .0000	Customer I.D. 001123	Customer Purchase Order 01-74296
Product Shape Rounds		Product Surface Cold Finished		Customer Grade 316/316L
Length (inches) 132.000 Min. 156.000 Max.		Bill of Lading # 297774	Weight	

Ship To

CASTLE METALS
 3400 NORTH WOLF ROAD
 FRANKLIN PARK, IL 60131

Sold To

CASTLE METALS
 3400 NORTH WOLF ROAD
 FRANKLIN PARK, IL 60131

Lifts: 0099 0100

CASTLE C.M.Q. COND A	CONDITION A	3316-226 REV 9 DTD 08/22/01
Mils-7720A AM 1(316)ex Cu .75	QQS 763 F	UNS S31600/S31603
ASTMA 182-02 Chem Only	ASTMA 276-02a	ASTMA 479-02
ASMESA182 01ED ChemOnly2002AD	ASMESA 479 01 ED 2002 ADD	AMS 5648K
AMS 5653F	ASTMA 193-01b B8M xcept 6.3	ASMESA193B8M01ED2002ADxcept6.3

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.016	1.57	.029	.025	.61	17.31	10.18	2.04	.47	.130	.058

HB
159

TENSILE PROPERTIES

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA
88700	40900	56.8	79.7

MACRO ASTM E340/E381

MACRO
OK

GRAIN SIZE ASTM E112

GRAIN SIZE
5

ASTM A 262 PRAC E(A Utilized)

OXALIC
OK

No mercury or low melting alloy contamination. No weld repair.

Heated to 1900F min. and water quenched (heating time & temp appropriate for optimum quality).

Intergranular corrosion test (free from cont carbide network) Per ASTM 262-86 Pr E

We certify that the contents of this report are correct and that all operations performed by our company or subcontractors are in compliance with material specifications and the ASME Boiler & Pressure Code, Section III, Section III, Subsection NCA-3800, 2001 edition. 02 Addenda

Chemical testing performed to one or several of the following ASTM methods: E415, E572, E1019, E1085, E1086.

Material conforms to listed specifications.

Quality system is registered to ISO 9002.

Results relate only to the items tested. Certification shall not be reproduced except in full, without the written approval of Slater Steels Corporation. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes, including Federal law, Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services

Dennis Hackett

Dennis Hackett

Manufactured in accordance with N.A.F.T.A.