

75182



**Slater Steels Corporation**

Fort Wayne Specialty Alloys Division  
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**Product Certification Report**

Report Number: **3699110**

Certified on Nov 18, 2003 Page 1 of 1

Order I.D. 0315997 001	Order Date 8/05/03	Commodity Code 31022	Mkt Date 7/08/03
Dim 1 11.0000	Dim 2 .0000	Dim 3 .0000	Heat ID. 75182
Product Shape Forged Round		Customer ID. 001123	Customer Purchase Order 01-12217
Product Surface Rough Turn 250 Max Micro		Customer Grade 316/316L	
Length (Inches) 132.000 Min. 168.000 Max.		Bill of Lading # 306612	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: 0034

CONDITION A  
 ASTM 182-02 Chem Only  
 ASTM 479-02  
 ASMESA 479 01 ED 2002 ADD  
 ASTM 193-01b B8M except 6.3  
 AMS-S 7720 except 75 maxcopper

3316-98 REV 20 DTD 05/20/03  
 ASTM 262-02  
 ASTM 484-00  
 AMS 5648K  
 ASMESA193B8M01ED2002AD except 6.3

UNS S31600/S31603  
 ASTM 276-02a  
 ASMESA182 01ED ChemOnly2002AD  
 AMS 5653F  
 AMS-QQS 763A

**CHEMICAL ANALYSIS**

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.013	1.53	.03	.030	.58	17.28	10.15	2.03	.52	.12	.07

HB  
141

**TENSILE PROPERTIES**

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA
78400	36500	64.5	78.6

GRAIN SIZE ASTM E112  
 GRAIN SIZE  
 3

CASTLE METALS EP

ASTM A 262 PRAC E (A Utilized)  
 OXALIC  
 OK

DATE REC'D 11/20/03 IAC 31022  
 APPROVED BY [Signature]

No repair welding was performed.  
 Material contains no metallic mercury or mercury compounds.  
 Macro structure - satisfactory  
 Micro structure - satisfactory  
 Solution Anneal 1900 deg.F. - Water quench  
 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 9001:2000. Produced in accordance with EN 10204 3.1B.

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

[Signature]

Dennis Hackett

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