



Atlas Specialty Steels

A Division of Slater Stainless Corp.
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Product Certification Report

Report Number: **3149661**

29115

Certified on Dec 20, 2002 Page 1 of 1

Slater Order I.D. 0206716 022		Order Date 3/11/02		Commodity Code		Melt Date 10/03/02	
Dim 1 6.2500	Dim 2 .0000	Dim 3 .0000	Heat I.D. 73825	Customer I.D. 002330	Customer Purchase Order 028606-MDH		
Product Shape Rounds			Product Surface HR & Rough Turned			Customer Grade 316/316L	
Length (Inches) 168.000 Min. 192.000 Max.		Bill of Lading # 293850		Weight			

Ship To
 ASA ALLOYS - ETOBICOKE
 81 STEINWAY
 ETOBICOKE, ONTARIO M9W 6P7
 CANADA

Sold To
 ASA ALLOYS
 81 STEINWAY BLVD
 ETOBICOKE, ONTARIO M9W6P7
 CANADA

Lifts: 0027

ASA SPEC 04/97	CONDITION A	MIL-S-7720A Amend 2 (302 ONLY)
MILS 7720A AM 2	NACE MR0175-01	PWA LCS APPROVED
QQS 763F	ASTMA 182-01 Chem Only	ASTMA 484-00
ASMESA182 01ED ChemOnly2002AD	ASTM A479-01	ASTM E112-96
ASME SA479-01 2002add	ASTM A193-01a B8M CL 1	ASTM A320-01 B8C CL 1
AMS 5648K	AMS 5653F	ASTM A276-00A

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.014	1.72	.029	.024	.66	17.24	10.22	2.05	.35	.131	.059

HB
140

TENSILE PROPERTIES

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA
79200	38600	59.0	80.3

GRAIN SIZE ASTM E112

GRAIN SIZE
5

ASTM A 262 PRAC E (A Utilized)

OXALIC
OK

Corrosion tested to A262 Practice E - satisfactory
 Solution Anneal 1900 deg.F. - Water quench
 Micro structure - satisfactory
 Macro etch - satisfactory
 No repair welding was performed.
 Material contains no metallic mercury or mercury compounds.
 Grain size per ASTM E112-96
 Chemical testing performed to one or several of the following ASTM methods: E415, E572, E1019, E1085, E1086
 Material has been controlled to P&WA 300 and LCS to Man. Sec. F17 P&WA
 Heat Code: AQ-ECO
 Material conforms to listed specifications.
 Quality system is registered to ISO 9002.