



VALBRUNA

SLATER STAINLESS, INC.
2400 TAYLOR STREET WEST - PO BOX 630
FORT WAYNE IN 46802 USA
PHONE 260.434.2800 - FAX 260.434.2801

Product Certification Report

Report Number: **5279170**

Certified on Jan 17, 2017 Page 1 of 2

Order I.D.	Order Date	Commodity Code			
1601746 002	10/20/16	4104.ORT			
Dim 1	Dim 2	Dim 3	Heat I.D.	Customer I.D.	Customer Purchase Order
4.0000	.0000	.0000	267532	002475	51285
Product Shape	Product Surface			Customer Grade	
Rounds	HR & Rough Turned			410	
Length (Inches)	Min.	Max.	Bill of Lading #	Weight	Melt Date:
132.000		156.000	428482		5/04/15

Ship To
VALBRUNA STAINLESS, INC.
1000 CANNONBALL ROAD
POMPTON LAKES, NJ 07442

Sold To
VALBRUNA STAINLESS, INC.
1000 CANNONBALL RUN
POMPTON, NJ 07442

Lifts: 0077

Condition A	QQ-S-763F	ASTMA 276-16a
ASTMA 479-16	ASTMA 484-15	ASMESA 479-13
AMS 2303F	AMS 5612J	AMS 5613R

SAE-AMS QQ-S-763D

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N	Al	Sn
.15	.47	.018	.001	.42	11.93	.45	.13	.07	.02	.03	.004	.004

BRINELL (Type A device) (E-10)

HBW

217

ROCKWELL HARDNESS ASTM E18-16

CAPABILITY

HRC	AUST(F)	AUST(HR)	QUENCH
45.0	1750	.50	Air

ROOM TEMP TENSILE ASTM E8-16a

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA
98300	73600	24.3	62.8

Cap HRC	TS (PSI)	.2%YS (PSI)	%EL(2")	%RA	AUST(F)	AUST(HR)	QUENCH
42	192300	156300	14.5	55.9	1700	1.00	Air

TEMP(F)	TEMP(HR)	QUENCH	TEMP(F)	TEMP(HR)	QUENCH
600	2.00	Air	600	2.00	Air

MAGNETIC PARTICLE to AMS2303F

FREQ SEV

AVG .00 .00



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Manager Laboratory Services *Tad Landwehr*

email TLandwehr@valbruna.us

Tad Landwehr



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Sold To
VALBRUNA STAINLESS, INC.
1000 CANNONBALL RUN
POMPTON, NJ 07442

MACRO ASTM E340-15/E381-01

MACRO
BOT OK
BOT OK
BOT OK
TOP OK
TOP OK
TOP OK

GRAIN SIZE ASTM E112-13

GRAIN SIZE Etchant Magnification X
6 Grads mod 100

PERCENT FERRITE (AMS 2315)

% FERRITE Etchant Magnification X
AVG .3 Grads mod 100

DECARB Etchant Magnification X
OK Grads mod 100

No welding or weld repair done.

Material when shipped is free from contamination by mercury, radium, alpha source, and low melting elements.

Reduction Ratio Exceeds 4:1

Electric Furnace melted; AOD refined.

Chemical testing to one or more of the listed ASTM methods:

E415-14, E1019-11, E1086-14.

Location of tensile fracture: inside middle of gage length. %elong after fracture.

Chemical Analysis performed at Acciaierie Valbruna, Italy.

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

Material melted in Italy, manufactured in the United States.

Material conforms to listed specifications. DFARS compliant. Our heat treat furnaces use air atmosphere.

Quality system is compliant with ISO 9001:2008. Produced in accordance with EN 10204 3.1.

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Manager Laboratory Services

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2400 TAYLOR STREET WEST - PO BOX 630
FORT WAYNE IN 46802 USA
PHONE 260.434.2800 - FAX 260.434.2801**Product Certification Report**Report Number: **5352330**

Certified on Jul 12, 2017 Page 1 of 2

Order I.D.	Order Date	Commodity Code			
1701400 001	6/21/17				
Dim 1	Dim 2	Dim 3	Heat I.D.	Customer I.D.	Customer Purchase Order
4.7500	.0000	.0000	A13151	001581	M21003425
Product Shape	Product Surface		Customer Grade		
Rounds	HR & Rough Turned		410		
Length (Inches)	Bill of Lading #	Weight	Melt Date:		
132.000 Min. 156.000 Max.	430101		5/27/15		

Ship To
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1000 CANNONBALL Rd.
POMPTON LAKES, NJ 07442

Sold To
VALBRUNA STAINLESS, INC.
2400 TAYLOR STREET WEST
FORT WAYNE, IN 46802

Lifts: 0020

Condition A	QQ-S-763F	UNS S41000
ASTMA 276-17	ASTMA 479-17	ASMESA 479-13
AMS 2303F	AMS 5612J	AMS 5613R

ROHS COMPLIANT**CHEMICAL ANALYSIS**

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N	Al	Sn
.13	.47	.020	.002	.41	11.86	.31	.05	.09	.02	.03	.002	.004

BRINELL Type A device E10-15a

HBW
203

ROCKWELL HARDNESS ASTM E18-16**CAPABILITY**

HRC	AUST(F)	AUST(HR)	QUENCH
43.4	1750	.50	Air

ROOM TEMP TENSILE ASTM E8-16a

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA				
95400	72000	30.2	68.4				
Cap HRC	TS (PSI)	.2%YS (PSI)	%EL(2")	%RA	AUST(F)	AUST(HR)	QUENCH
42	197000	161800	15.4	62.5	1700	1.00	Air
TEMP(F)	TEMP(HR)	QUENCH	TEMP(F)	TEMP(HR)	QUENCH		
600	2.00	Air	600	2.00	Air		

MAGNETIC PARTICLE to AMS2303F

FREQ SEV
AVG .00 .00



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FORT WAYNE, IN 46802

MACRO ASTM E340-15/E381-01(12)

MACRO
BOT OK
BOT OK
BOT OK
TOP OK
TOP OK
TOP OK

GRAIN SIZE ASTM E112-13

GRAIN SIZE	Etchant	Magnification X
5	Grads mod	100

PERCENT FERRITE (AMS 2315G)

% FERRITE	Etchant	Magnification X
AVG 1.0	Grads mod	100

DECARB	Etchant	Magnification X
OK	Grads mod	100

No welding or weld repair done.

Material when shipped is free from contamination by mercury, radium, alpha source, and low melting elements.

Reduction Ratio Exceeds 4:1

Electric Furnace melted; AOD refined.

Chemical testing to one or more of the listed ASTM methods:

E1019-11, E1086-14.

Location of tensile fracture: inside middle of gage length. %elong after fracture.

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

Material melted and manufactured in the United States.

Material conforms to listed specifications. DFARS compliant. Our heat treat furnaces use air atmosphere.

Quality system is compliant with ISO 9001:2008. Produced in accordance with EN 10204 3.1.



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4.0000	.0000	.0000	267532	002475	51285
Product Shape	Product Surface		Customer Grade		
Rounds	HR & Rough Turned		410		
Length (Inches)	Bill of Lading #	Weight	Melt Date: 5/04/15		
132.000 Min. 156.000 Max.	428482				

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Lifts: 0077

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ASTMA 479-16	ASTMA 484-15	ASMESA 479-13
AMS 2303F	AMS 5612J	AMS 5613R
SAE-AMS QQ-S-763D		

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N	Al	Sn
.15	.47	.018	.001	.42	11.93	.45	.13	.07	.02	.03	.004	.004

BRINELL (Type A device) (E-10)

HBW
217

ROCKWELL HARDNESS ASTM E18-16

CAPABILITY

HRC	AUST(F)	AUST(HR)	QUENCH
45.0	1750	.50	Air

ROOM TEMP TENSILE ASTM E8-16a

TS (PSI)	.2%YS (PSI)	%EL(2")	%RA	AUST(F)	AUST(HR)	QUENCH	
98300	73600	24.3	62.8				
Cap HRC	TS (PSI)	.2%YS (PSI)	%EL(2")	%RA	AUST(F)	AUST(HR)	QUENCH
42	192300	156300	14.5	55.9	1700	1.00	Air
TEMP(F)	TEMP(HR)	QUENCH	TEMP(F)	TEMP(HR)	QUENCH		
600	2.00	Air	600	2.00	Air		

MAGNETIC PARTICLE to AMS2303F

FREQ	SEV
AVG .00	.00



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MACRO ASTM E340-15/E381-01

MACRO
BOT OK
BOT OK
BOT OK
TOP OK
TOP OK
TOP OK

GRAIN SIZE ASTM E112-13

GRAIN SIZE	Etchant	Magnification X
6	Grads mod	100

PERCENT FERRITE (AMS 2315)

% FERRITE	Etchant	Magnification X
AVG .3	Grads mod	100

DECARB	Etchant	Magnification X
OK	Grads mod	100

No welding or weld repair done.

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Reduction Ratio Exceeds 4:1

Electric Furnace melted; AOD refined.

Chemical testing to one or more of the listed ASTM methods:

E415-14, E1019-11, E1086-14.

Location of tensile fracture: inside middle of gage length. %elong after fracture.

Chemical Analysis performed at Acciaierie Valbruna, Italy.

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

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