

# Acciaierie Valbruna S.p.A.



QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

258620  
-9in

**CERTIFICATO DI COLLAUDO**  
**ABNAHMEPRUEFZEUGNIS**  
**INSPECTION CERTIFICATE**  
**CERTIFICAT DE RECEPTION**  
EN 10204 (2004) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.  
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Customer/Purchaser/Cliet  
**VALBRUNA STAINLESS INC.**  
2400 TAYLOR STREET WEST  
46801-FORT WAYNE, IN 46801-US

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**  
Hersteller/Usine producer

Avviso di Spedizione: D-VII2030274  
Lieferungs-/Packung Beleg

Certificato nr: MEST259325/2012/  
Prüfung/Test/Essai

Conferma ordine nr: E112007645  
Werkz/Our Order/Ref. nr.

Marchio di Fabbrica:  
Zahlen des Lieferwerkes  
Trade mark  
Sigle de l'usine productrice



Funzione del Collaudatore:  
Stempel des Werksachverständigen  
Inspector's stamp/Pointon de l'essayeur



Stato di fornitura: - Annealed FORGED  
Lieferzustand/Delivery state/Etat de livraison

Tipo di Elaborazione: E+AOD  
Erherbeitungsart/Manufact process/Mode de fabrication

Specifiche:  
Anforderungen / Requirements / Exigences

VSI 0 316/316L A  
AMS 5653 F S31603 A  
ASME SA193 2010 B8M CLASS1 (1)  
ASME SA479 2010 S31600/03 A (4)  
ASTM A262 2010 PRACTICE E  
ASTM A320 2011A B8M CLASS1  
ASTM A479 2011 S31600/03 A  
QQ-S-763 F 316/316L A

AISI 316/316L  
AMS-QQ-S-763 B 316/316L A  
ASME SA276 2010 S31600/03 A (2)  
ASTM A182 2011A S31600/03 A (5)  
ASTM A276 2010 S31600/03 A  
ASTM A370 2011A  
MIL-S-882 B/1 316/316L

AMS 5648 L S31600 A  
ASME SA182 2010 S31600/03 A (0)  
ASME SA320 2010 B8M CLASS1 (3)  
ASTM A193 2011A B8M CLASS1  
ASTM A314 2008 S31600/03  
ASTM A473 2001 S31600/03 (6)  
NACE MR0175 2009 S31600/03 A (7)

- (0) SEC.II PT.A 2010 EDITION ADD. 2011a
- (1) SEC.II PT.A 2010 EDITION ADD. 2011a
- (2) SEC.II PT.A 2010 EDITION ADD. 2011a
- (3) SEC.II PT.A 2010 EDITION ADD. 2011a
- (4) For products machined directly from bar refer to ASTM A479.
- (5) For products machined directly from bar refer to ASTM A479.
- (6) ANS/NACE MR0175/ISO 15158-3, second edition 2009-10-15
- (7) ANS/NACE MR0175/ISO 15158-3, second edition 2009-10-15

- (0) For products machined directly from bar refer to ASME SA479.
- (1) SEC.II PT.A 2010 EDITION ADD. 2011a
- (2) SEC.II PT.A 2010 EDITION ADD. 2011a
- (3) SEC.II PT.A 2010 EDITION ADD. 2011a
- (4) SEC.II PT.A 2010 EDITION ADD. 2011a
- (5) Chemical analysis only.
- (6) Technical circular 1:2011 Published 2011-08-14
- (7) Technical circular 1:2011 Published 2011-08-14

Qualità: 316/316L

Marca: APML

Tolleranza: ASTM A484-11 TABLE 3

Funzionatura: 316/316L

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Objektstand Product description Descrip. du produit	Dimensioni - In Abmessungen Dimension	Lunghezza - In Länge Length Langueur	Colata Bohrnisse Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losnr. Lot nr. Lot nr.
0050	Round	9,0000	178 / 186	258620		13.750	213003840

**TEST ALLO STATO DI FORNITURA**

TEST	Prova/Probes Spezifikation/Specimen Long. Char. Tens. Qual. Char. Data Weld Char. Testres Long. Char. Spec. mm	°F	Prova/Probes Spezifikation/Specimen Rp 0,2% k.s.l.	Sneramento Streckgrenze Yield Stress Rp 0,2% k.s.l.	Sneramento Streckgrenze Yield Stress Rp 0,2% k.s.l.	Resistenza Zugfestigkeit Tensile strength Resistance à traction Rm k.s.l.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Zugverschiebung Elongation of one Striction RA %	Resilienza Kerbschlagenergie Impact Value Resilience	Durezza Härte Hardness Dureté HB
Valori richiesti / Anforderungen/Required values Valeurs demandées		min max	30	-	75 115	-	40	-	50	140 223
A	12,5	68	L	38	83	61	70			167

TEST	min	max
A Grain size for ASTM E112		4

Mechanical properties according to ASTM A370.

1) L=Inghilide/Inch/Millig, T=Temperatura/Temp., C=Temperatura/Temperatur

**Analisi chimica**

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata/Heat Schmelze/Coulée	min - max	0,030	1,00	1,25 2,00	16,50 18,00	2,00 3,00	10,00 14,00	-	0,040 0,030	0,020 0,030	0,100	-	-	-	-
Heat#	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %				
258620	0,019	0,23	1,72	16,72	2,01	0,45	10,00	0,163	0,030	0,027	0,082				

Produced without class II Ozone depleting substances.  
Solution heat treated free from continuous carbide network.  
Annealing temperature: 1940°F for 8 h/water.  
Micro and macro etch test: OK  
Reduction ratio > 4 : 1  
Intergranular corrosion test per ASTM A262 pract. E: ok.  
Material is DFARS Compliant

Vicenza, 18/10/12 VCC008 (Mod. MCE2)	Il collaudatore di stabilimento / der Werksachverständigen / Works inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 2
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From: Copper and Brass Sales CA

Cust. NEXXA INDUSTRIES LTD.

Del.: 2403353801

CstAr

CstOr 78803

*Valbruna*

# Acciaierie Valbruna S.p.A.



QUALITY MANAGEMENT SYSTEM  
CERTIFIED BY LLOYD'S REGISTER

## CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2004) , 3.1

38100 VICENZA (Italia) - Viale della scienza, 25 z.l.  
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Clients / Destatler/Purchaser/Clients  
VALBRUNA STAINLESS INC.  
2400 TAYLOR STREET WEST  
46801-FORT WAYNE, IN 46801-US

Produttore: ACCIAIERIE VALBRUNA S.P.A.  
Hersteller/Hersteller/Usine producer

Avviso di Spedizione: D-VI12030274  
Lieferungsan/Packing list/G.L.

Ordine nr: 34108 STOCK HOUSTON  
Bestell/Nr order/Commande

Tipo di Elaborazione: E+AOD  
Erzeugungsart/Manufact process/Mode d'elaboration

Stato di fornitura: - Annealed FORGED  
Lieferzustand/Delivery state/Etat de livraison

Sono state soddisfatte tutte le condizioni richieste  
Die gestellten Anforderungen sind in Anlage erfüllt  
The material has been furnished in accordance with the requirements  
Le matériel a été trouvé conforme aux exigences

Controllo antimescolanza: OK  
Verwechslungsprüfung: spezialanalytisch durchgeführt  
AntiMixing testing performed: OK  
Contrôle antimeslange fait: r. g. a.

Certificato nr: MEST259325/2012/  
Prüfung/Test/Essai

Confirma ordine nr: EI12007645  
Werkz/Our Order/Ref. nr.

Marchio di Fabbrica:  
Zeichen des Lieferanten  
Trade mark  
Sigle de l'usine production



Funzione del Collaudatore:  
Stempel des Werkosachverständigen  
Inspector's stamp/Policeur de l'atelier



Controllo visivo e dimensionale: soddisfa le esigenze  
Sichtprüfung und Abmessung: diese Besondere  
Visual inspection and dimensional check: satisfactory  
Contrôle visuel et dimension: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination  
We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.  
The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1, s. 4.3 by TUEV and LLOYD'S  
Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.  
The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 18/10/12 VCC008 (Mod. MCEZ)	Il collaudatore di stabilimento / der Werkosachverständige / Works Inspector / L' agent d' usine M. Rizzotto	Pagina - 2 di 2
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*Salvatore Zambetti*