

# Acciaierie Valbruna S.p.A.



QUALITY MANAGEMENT SYSTEM  
CERTIFIED BY LLOYD'S REGISTER

254659

Avviso di Spedizione: D-VII1027283  
Lieferanzgeber/Packing list/BI 1

Ordine nr: 29850 STOCK HOUSTON  
Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD  
Erschmelzungsart/Melting process/Mode d'elaboration

## CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2005) , 3.1

Certificato nr: MEST095144/2011/  
Prüfung/Toot/Essai

Conferma ordine nr: E111002784  
Werke/Our Order/Ret nr

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



Punzone del Collaudatore:  
Stempel des Werksachverständigen  
Inspector's stamp/Poinçon de l'essayeur

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

Cliento / Besteller/Purchaser/Client  
VALBRUNA STAINLESS INC.  
2400 TAYLOR STREET WEST  
46801-FORT WAYNE, IN 46801-US

Produttore: ACCIAIERIE VALBRUNA S.P.A.  
Hersteller/Item/Usine productrice

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

C+B P076652 W05567 CPA 12 RTJ 140

Specifiche:  
Anforderungen / Requirements / Engوعات

- VSI 0 316/316L A
- AMS-QQ-S-763 B 316/316L A
- ASME SA276 2010 S31600/03 A (2)
- ASTM A182 2010A S31600/03 A (5)
- ASTM A276 2010 S31600/03 A
- ASTM A370 2011
- MIL-S-862 B/1 316/316L

- AMS 5648 K S31600 A
- ASME SA182 2010 S31600/03 A (0)
- ASME SA320 2010 B8M CLASS1 (3)
- ASTM A193 2011 B8M CLASS1
- ASTM A314 2008 S31600/03
- ASTM A473 2001 S31600/03 (6)
- NACE MR0175\* 2003 S31600/03 (7)

- 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 2011 B8M CLASS1
- ASTM A479 2011 S31600/03 A
- QQ-S-763 F 316/316L A

- (0) SEC.II PT.A 2010 EDITION
- (1) SEC.II PT.A 2010 EDITION
- (3) SEC.II PT.A 2010 EDITION
- (5) For products machined directly from bar refer to ASTM A479.
- (7) \* ISO 15156-3. Tec. corrigendum 1 2005/02/15 & 2 2005/09/01

- (0) For products machined directly from bar refer to ASME SA479.
- (2) SEC.II PT.A 2010 EDITION
- (4) SEC.II PT.A 2010 EDITION
- (6) Chemical analysis only.

Qualità: 316/316L  
Werkstoff/Grade/Nummer

Aspetto: APML  
Nennbezeichnung/Brand/Nummer

qs. nr. Stück nr. No du poste	Objetto Gegenstand Product description Désignation du produit
0090	Round

Dimensioni - In  
Abmessung  
Dimension  
Dimension

20,1563

Tolleranza  
Toleranz  
Allowance  
Tolerance

ASREQ

Punzonatura: 316/316L  
Kennzeichnung/Markung/Marquage

Lunghezza - In  
Länge  
Length  
Longueur

112 / 112

Colata  
Schmelze  
Heat  
Coulée

254659

Pozzi  
Stüczahn  
Pieces  
Puzzes

Peso - LB  
Gewicht  
Weight  
Poids

20.618

Lotto nr.  
Losnr.  
Lot nr.  
Lote nr.

108004020

### TEST ALLO STATO DI FORNITURA

Test on delivery condition Prüfung auf lieferbarem Produkt test à l'état de fourniture Prueba sobre el material así como entregado

TFST	Provetta/ Supermanif/Provette Lang. diam. Größe Wahl diam. Durchmesser Lang. diam. Größe mm	°F	Pozzi Saggio Lustern Essai	Snervamento Streckgrenze Yield Stress Limite élastique Rp 0,2% k.s.i.	Snervamento Streckgrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.i.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Einengung Reduction of area Striction RA %		Resilienza Kerbschlagarbeit Impact Value Resilience	Durezza Härte Hardness Dureté HB
								min	max		
A	12,5	68	L	40		83	59		73	140	223
							min	max			
A	Grain size for ASTM E112					4					

1) L-Longitudinale/Länge, T-Transversale/Quers, Q-Tangenziale/Tangentiel

Mechanical properties according to ASTM A370.

### Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata Heat Schmelze/Heat	min	1,25	16,50	2,00	1,00	10,00	0,040	0,020	0,100	
	max	2,00	18,00	3,00		14,00		0,030		
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	
254659	0,020	0,28	1,80	16,86	2,04	0,50	10,00	0,093	0,030	
									S %	N %
									0,027	0,076

Produced without class I-II Ozone depleting substances.  
Solution heat treated free from continuous carbide network.  
Annealing temperature: 1940 °F for 13 h/water.  
Micro and macro etch test: OK  
Reduction ratio > 4 : 1  
Intergranular corrosion test per ASTM A262 pract. E: ok.

5  
M

Vicenza, 07/09/11  
VCC098  
(Mod. MCE2)

Il collaudatore di stabilimento / der Werksachverständige / Works inspector / L'agent d'usine

M. Rizzotto

# Acciaierie Valbruna S.p.A.



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CERTIFIED BY LLOYD'S REGISTER

CERTIFICATO DI COLLAUDO  
ABNAHMEPRUEFZEUGNIS  
INSPECTION CERTIFICATE  
CERTIFICAT DE RECEPTION  
EN 10204 (2005) , 3.1

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46801-FORT WAYNE, IN 46801-US

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Hersteller/Itan/Usine producteur

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Lieferzustand/Delivery state/Etat de livraison

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Lieferanzug/Packing list/B.L.

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Tipo di Elaborazione: E+AOD  
Erwärmungsart/Heatng process/Mode d'elaboration

Certificato nr: MEST095144/2011/  
Prüfung/Test/Fress.

Conferma ordine nr: EI11002784  
Werk's Our Order/Ref nr

Marchio di Fabbrica:  
Zeichen des Lieferwerkes  
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Sigle de l'usine producteur

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## Material is DFARS Compliant

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

Controllo antimiscelanza: OK  
Verwechslungsprüfung: spektroanalytisch durchgeführt  
Antmischung testing performed: OK  
Contrôle antimélange fait: r.a.s.

Controllo visivo e dimensionale: soddisfa le esigenze  
Beachtung und Ausmessung: ohne Beanstandung  
Visual inspection and dimensional checks: satisfactory  
Contrôle visuel et dimensionnel: 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, 07/09/11

VCC0011  
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L' agent d' usine

M. Rizzotto

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