

Acciaierie Valbruna S.p.A.



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

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

Cliente / Buyer/Purchaser/Cliant
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801-FORT WAYNE, IN 46801-US

Aviso di Spedizione: D-VI12003398
Lieferungsbeleg/Packing list/D.L.

Certificato nr: MEST154508/2012/
Prüfung/Test/East

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

Ordine nr: 32133 STOCK HOUSTON
Bestell/Your order/Commande

Conferma ordine nr: EI12000040
Werkz/Our Order/Ref. nr.

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

Tipo di Elaborazione: E+AOD
Erzeugnisart/Manufacturing process/Mode de fabrication

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



Funzione del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Poligon de l'inspecteur



Specifiche:
Anforderungen / Requirements / Exigences

VSI 0 316/316L A
AMS-QQ-S-763 B 316/316L A
ASME SA278 2010 S31600/03 A (2)
ASTM A182 2011 S31600/03 A (5)
ASTM A278 2010 S31600/03 A
ASTM A370 2011
MIL-S-882 B/1 316/316L

AMS 5648 K S31600 A
ASME SA182 2010 S31600/03 A (3)
ASME SA320 2010 B8M CLASS1 (3)
ASTM A183 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 SA478 2010 S31600/03 A (4)
ASTM A282 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
- (2) SEC.II PT.A 2010 EDITION
- (5) For products machined directly from bar refer to ASTM A479.
- (7) * ISO 15156-3. Tec. corrigendum 1 2005/02/16 & 2 2006/08/01

- (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/Qualité

Marca: APML
Markenbezeichnung/Brand/Marque

Funzionatura: 316/316L
Kornzeichnung/Marking/Markage

Pos. nr. Pos. nr. Nr. de poste	Objetto Designation Descr. di produtt	Dimensioni - in Abmessungen Dimension Dimension	Tolleranza Tolérance Tolérance	Lunghezza - in Länge Length Longueur	Colata Schmelze Coulée	Pezzi Stückzahl Pièces	Peso - LB Gewicht Poids	Lotto nr. Lose n. Lot nr.
0040	Round	13,1563	ASREQ	171 / 171	256828	1	6.702	120807450

TEST ALLO STATO DI FORNITURA

Test on delivery condition Prüfung auf Lieferzustand produkt test à l'état de livraison Prueba sobre el material así como entregado

TEST	Prova/Probes Beschreibung/Description Long. Diam. Thickn Werkz. Dim. Thickness Long. diam. thickn mm	°F	Posti Stagge Positions Lignes	Sneramento Erweichung Softening Unité d'échou Rp 0,2% k.s.l.	Sneramento Erweichung Softening Unité d'échou	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.l.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Reduction of area Réduction	RA %	Resistenza Fechtigkeit Impact Value Resistance	Durezza Härte Hardness Dureté HB
	Valori richiesti 1 Anforderungen/Required values Valeur d'échou	min max		30	-	75 115	- 40	-	50	-	140 223
A	12,5	68 L		37		81	59		72		165

TEST	min	max
A Grain size for ASTM E112		4

Mechanical properties according to ASTM A370.

(1)-Inghilide/steifrig, T-invernalte/quer, Q-Temperde/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	1,00	10,00 14,00	-	0,040	0,020 0,030	0,100	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %			
256828	0,017	0,37	1,72	16,54	2,00	0,51	10,03	0,109	0,032	0,030	0,090			

Produced without class II Ozone depleting substances.
Solution heat treated free from continuous carbide network.
Annealing temperature: 1940°F for 8,5 h/water.
Micro and macro etch test: OK
Reduction ratio > 4 : 1
Intergranular corrosion test per ASTM A262 pract. E: ok.

Vicenza, 01/02/12
V00006
(Mod. MCEB)

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

M. Rizzotto *[Signature]*

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Acciaierie Valbruna S.p.A.



QUALITY MANAGEMENT SYSTEM
CERTIFIED BY LLOYD'S REGISTER

CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
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EN 10204 (2004) , 3.1

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

Clienti / Dealer/Purchaser/Clerk
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801-FORT WAYNE, IN 46801-US

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Hersteller produkte

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

Avviso di Spedizione: D-VI12003396
Lieferensign/Packing list/B.L.

Ordine nr: 32133 STOCK HOUSTON
Bestell./Your order/Commande

Tipo di Elaborazione: E+AOD
Bearbeitungsart/Manufacturing process/Mode d'elaboration

Certificato nr: MEST154508/2012/
Prüfung/Test/Essai

Conferma ordine nr: EI12000040
Werkz./Our Order/Ref nr.

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



Punzone del Collaudatore:
Stempel des Werkschwerstüchtigen
Inspector's stamp/Poligon de l'essayer



Material is DFARS Compliant

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

Controllo antimiscelanza: OK
Verwechslungsprüfung: spektrometrisch durchgeführt
Anti-leaking testing performed: OK
Contôle antimélange fait: r.a.s.

Controllo visivo e dimensionale: soddisfa le esigenze
Rechtigüßig und Ausmessung: ohne Beanstandung
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, a., 4.3 by TÜEV 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, 01/02/12
V00006
(Mod. MCE2)

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

M. Rizzotto

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