

# Acciaierie Valbruna S.p.A.



QUALITY MANAGEMENT SYSTEM  
CERTIFIED BY LLOYD'S REGISTER

262080

## 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

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

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

Avviso di Spedizione: D-VI13029220  
Lieferungs-/Packungszettel

Certificato nr: MEST409920/2013/  
Prüfung/Teil/Essai

Confirma ordine nr: E113006799  
Works/Our Order/Ref. nr.

Marchio di Fabbrica:  
Zeichen des Werksachverständigen  
Trade mark  
Style de fusine producteur



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

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

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

Specifiche:  
Anforderungen / Requirements / Exigences

VSI 0 304/304L A  
AMS 5647 J S30403 A  
ASME SA193 2010 B8 CLASS1 (1)  
ASME SA479 2010 S30400/03 A (4)  
ASTM A262 2010, PRACTICE E  
ASTM A320 2011A B8 CLASS1  
ASTM A479 2012 S30400/03 A  
NACE MR0175 2009 S30400/03 A (7)

AISI 304/304L  
AMS-QQ-S-763 B 304/304L A  
ASME SA276 2010 S30400/03 A (2)  
ASTM A182 2012B S30400/03 A (5)  
ASTM A276 2010 S30400/03 A  
ASTM A370 2012A  
MIL-S-882 B/1 304/304L  
QQ-S-763 F 304/304L A

AMS 5839 H S30400 A  
ASME SA182 2010 S30400/03 A (0)  
ASME SA320 2010 B8 CLASS1 (3)  
ASTM A193 2011A B8 CLASS1  
ASTM A314 2008 S30400/03  
ASTM A473 2001 S30400/03 (6)  
NACE MR0103 2010 S30400/03 A

- (0) SEC.II PT.A 2010 EDITION ADD. 2011a
- (1) SEC.II PT.A 2010 EDITION ADD. 2011a
- (3) SEC.II PT.A 2010 EDITION ADD. 2011a
- (5) For products machined directly from bar refer to ASTM A479.
- (7) ANSI/NACE MR0175/ISO 15156-3, second edition 2009-10-15

- (0) For products machined directly from bar refer to ASME SA479.
- (2) SEC.II PT.A 2010 EDITION ADD. 2011a
- (4) SEC.II PT.A 2010 EDITION ADD. 2011a
- (6) Chemical analysis only.
- (7) Technical circular 1:2011 Published 2011-06-14

Qualità: 304/304L  
Werkstoff/Grade/Qualité

Marca: AISL  
Werkstoffbezeichnung  
Brand/Usine

Tolleranza: ASTM A484-11 TABLE 3  
Toleranz/Allowance/Tolérance

Punzonatura: 304/304L  
Kennzeichnung/Marking/Marquage

Pos. nr. Pos. nr. N.º de posto	Oggetto Gegenstand Product description Descrip. du produit	Dimensioni - In Abmessungen Dimension Dimension	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losnr. Lot nr. Lot nr.
0030	Round	15,0000	143 / 147	262080		14.882	324002150

### TEST ALLO STATO DI FORNITURA

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

TEST	Proveita/Probetta Erschienen/Probe Long. diam. Ø diam. Bull. Diam. Dia With diam. Thickness Larg. diam. épais mm	°F	Posiz. Saggio Position Lieu	Sneramento Bredgrenze Yield Stress Limite élastique Rp 0,2% k.s.l.	Sneramento Bredgrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.l.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Einschnürung Reduction of area Striction RA %	Resilienza Kerbschlagenergie Impact Value Resilience	Durezza Härte Hardness Dureté HB
	Valori richiesti 1 Anforderungen/Required values Valeurs demandées	min max		30	-	75 115	40	50	-	140 223
A	12,5	68   L		38		81	62	71		167

TEST	min	max
A Grain size for ASTM E112		4

1) L-Longitudinale/Ängs, T-Transversale/quer, Q-Tangenziale/tangentiel

Mechanical properties according to ASTM A370.

### Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata Heat Schmelze/Coulée	min - max 0,030	1,00	2,00	18,00 20,00	1,00	1,00	8,00 10,50	0,040	0,020 0,030	0,100	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %			
262080	0,017	0,47	1,68	18,15	0,67	0,51	8,05	0,110	0,030	0,024	0,091			

Produced without class II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1940°F for 10 h/water.

Micro and macro etch test: OK

Reduction ratio > 4 : 1

Intergranular corrosion test per ASTM A262 pract. E: OK

Absence of cracks at 20 x magnification after bend test.

Vicenza, 09/10/13 V00008 (Mod. MCE2)	Il collaudatore di stabilimento / der Werksachverständige / Works inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 2
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JR 980

# 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.i.  
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

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

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

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

Material is DFARS Compliant

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 antimiscelanza: OK  
Verwechslungsprüfung: spektralanalytisch durchgeführt  
Antimixing testing performed: OK  
Contrôle antimélange fait: r.e.s.

Controllo visivo e dimensionale: soddisfa le esigenze  
Besichtigung und Ausmessung: ohne Beanstandung  
Visual inspection and dimensional checks: satisfactory  
Contrôle visuel et dimensional: 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.

Avviso di Spedizione: D-VI13029220  
Lieferanzüge/Packing list/B.L.

Certificato nr: MEST409920/2013/  
Prüfung/Test/Essai

Conferma ordine nr: E113006799  
Werke/Our Order/Ref. nr.

Ordine nr: 36552 STOCK CAROL STR  
Bestell/Your order/Commande

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



Tipo di Elaborazione: E+AOD  
Erweichungsart/Melting process/Mode of elaboration

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



Vicenza, 09/10/13  
VCC006  
(Mod. MCE2)

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

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