

Acciaierie Valbruna S.p.A.



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

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
 Stab. 39100 BOLZANO (Italia) - Via A. Volta, 4
 Telephon number : 0039 (0) 444968211

Clients / Destinatari / Purchasers / Clienti
VALBRUNA STAINLESS INC.
 2400 TAYLOR STREET WEST
 46801-FORT WAYNE, IN 46801-US

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

Avviso di Spedizione: D-VI150009888
 Lieferungs/Packing List/BL

Ordina nr: 44682 STOCK CHINO
 Bestell-/Your order/Comanda

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

Certificato nr: MEST671531/2015/
 Prüfung/Test/Exam

Confirma ordine nr: E115003138
 Werkst./Our Order/Ref. nr.

Marchio di Fabbrica:
 Zeichen des Herstellerwerkes
 Trade mark
 Sigla de fabrica productie

Prunzone del Collaudatore:
 Stempel des Werkstachverständigen
 Inspector's stamp/Plombon de l'essayeur



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

Specifiche:
 Anforderungen / Requirements / Exigences

- ANSI 316/316L A
- AMS 5653 H S31603 A
- ASME SA193 2013 B8M CLASS1 (1)
- ASME SA479 2013 S31600/03 A (4)
- ASTM A262 2013 PRACTICE E
- ASTM A320 2011A B8M CLASS1
- ASTM A479 2014 S31600/03 A
- NACE MR0175 2009 S31600/03 A (7)

- AISI 316/316L
- AMS-QQ-S-763 C 316/316L A
- ASME SA276 2013 S31600/03 A (2)
- ASTM A182 2014A S31600/03 A (5)
- ASTM A276 2013A S31600/03 A
- ASTM A370 2014 .
- MIL-S-882 B/1 316/316L
- QQ-S-763 F 316/316L A

- AMS 5648 L S31600 A
- ASME SA182 2013 S31600/03 A (0)
- ASME SA320 2013 B8M CLASS1 (3)
- ASTM A193 2011A B8M CLASS1
- ASTM A314 2008 S31600/03
- ASTM A473 2001 S31600/03 (6)
- NACE MR0103 2010 S31600/03 A

- (0) SECTION II PT.A 2013 EDITION
- (1) SECTION II PT.A 2013 EDITION
- (3) SECTION II PT.A 2013 EDITION
- (5) For products machined directly from bar refer also
- (6) Chemical analysis only.
- (7) Technical circular 1:2011 Published 2011-06-14

- (0) For products machined directly from bar refer to ASME SA479.
- (2) SECTION II PT.A 2013 EDITION
- (4) SECTION II PT.A 2013 EDITION
- (6) to ASTM A479.
- (7) ANSINACE MR0175ISO 15156-3, second edition 2009-10-15

Qualità: 316/316L
 Werkstoff/Grade/Qualité

Marca: APML
 Hersteller/Brand/Usine

Tolleranza: ASTM A484-14a TABLE 3
 Toleranz /Allowance/Tolérance

Prunzonatura: 316/316L
 Kennzeichnung/Marking/Alorsage

Pos. nr. Ref. nr. It. da parte	Objetto Design and Product description Design de produit	Dimensioni In Abmessungen Dimension Dimension	Lunghezza - In Länge Length Longueur	Colata Schmelze Melt Coulée	Pezzi Stücken Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Lohnr. Lot nr. Lot nr.
0100	Round	8,5000	214 / 227	265831		10.936	425505720

TEST ALLO STATO DI FORNITURA									
TEST		Prove alla consegna		Prüfung auf Lieferzustand		test à l'état de fourniture		Prueba sobre el material así como entregado	
Prove alla consegna	Pos. Saggio	Snervamento	Snervamento	Resistenza	Allungamento	Strizione	Resilienza	Durezza	
Temp. max. (°C)	Temp. max. (°C)	Yield strength (k.s.i.)	Tensile strength (k.s.i.)	Tensile strength (k.s.i.)	Elongation (%)	Reduction of area (%)	Impact Value (Joules)	Hardness (HB)	
min	min	30		75	40	50		140	
max	max	38		115	61	74		223	
A	12,5	68	L	81				168	
A	Grain size for ASTM E112				min	max			
									4

Mechanical properties according to ASTM A370.

1H - Härte nach DIN 51601, Tensilevorversuch, Q-Temperaturleistung entfällt

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Qualität des Werkstoffes	min	max	1,25	16,50	2,00	10,00	0,040	0,020	0,100			
265831	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %	
	0,016	0,33	1,70	16,52	2,02	0,70	10,06	0,098	0,033	0,026	0,074	

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

Vicenza, 08/04/15

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

M. Rizzotto

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Acciaierie Valbruna S.p.A.



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Telephon number : 0039 (0) 444968211

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

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

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

Absence of cracks at 20 x magnification after bend test.
Reduction ratio = 7,6 : 1
Annealing temperature: 1940 °F for 6 h/water.
Material is DFARS Compliant

Sono stato soddisfatto tutte le condizioni richieste
Es gesteten Anforderungen sind lt. Anlage erfüllt
The material has been checked in accordance with the requirements
Le matériel a été vérifié conforme aux exigences

Controlli antimiscelanza: OK
Verwechslungsprüfung: spektralanalytisch durchgeführt
Anfälschung testing performed: OK
Contrôle antimélange fait: r.s.s.

Controllo visivo e dimensionale: soddisfa le esigenze
Besichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional check/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 Product.

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI15009988
Lieferanfrage/Packing list/S.L.

Certificato nr: MEST671531/2015/
Prüfung/Teil/Etat

Ordine nr: 44682 STOCK CHINO
Bestel/Your order/Commande

Conferma ordine nr: E115003138
Werkst/Our Order/Ret. n.

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



Funzione del Collaudatore:
Beauftragter Werkstoffprüfingenieur
Inspector à l'Atelier/Pointeur de l'essayeur



Vicenza, 08/04/15

7 3.46
1016 84721

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

M. Rizzotto

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