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Acciaierie Valbruna S.p.A.



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

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

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

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

Specifiche:
Anforderungen / Requirements / Esigences

- VSI 0 316/316 L A
- AMS 5653 H S31603 A
- ASME SA193 2010 B8M CLASS1 (1)
- ASME SA479 2010 S31600/03 A (4)
- ASTM A282 2010 PRACTICE E
- ASTM A320 2011 A B8M CLASS1
- ASTM A479 2012 S31600/03 A
- NACE MR0175 2009 S31600/03 A (7)

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

Avviso di Spedizione: D-VI13020267
Lieferantrag/Packing list/B.L.

Ordine nr: 36145 STOCK CHINO
Bestell-Nr/Order/Commande

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

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

Certificato nr: MEST370874/2013/
Prüfung/Test/Essai

Confirma ordine nr: El13005294
Werkz/Our Order/Ref. nr.

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



Punzone del Collaudatore:
Stempel des Werkstoffprüfers
Inspector's stamp/Poligon de l'essayeur

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

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

Qualità: 316/316L
Werkstoff/Qualität/Qualité

Marca: APML
Markenbezeichnung
Etiquette

Tolleranza: ASTM A484-11 TABLE 3
Toleranz/Normen/Tolerance

Punzonatura: 316/316L
Kennzeichnung/Marking/Ataque

Pos. nr. Pos. nr. Item nr. Nr. de poste	Objetto Gegenstand Product description Descrip. du produit	Dimensioni - in Abmessungen Dimension Dimension	Lunghezza - in Länge Length Longueur	Colata Schmelze Vest Coulée	Pezzi Bildschal Pieces	Peso - LB Gewicht Weight Poids	Lotto nr. Losn. Lot nr. Lot nr.
0010	Round	11,0000	132 / 136	260674		14.983	307106280

TEST ALLO STATO DI FORNITURA Test on delivery condition Prüfung auf Lieferbereitschaft Produkt (test à l'état de fourniture) Proba sobre el material así como entregado

TEST	Prova/Prüfung Long diam. Spec. Diam. Diam. Spec. Wich. Diam. Thickness Larg. diam. épais mm	°F	Posiz. Boggio Laminé Laminé	Snervamento Strainpointe Yield Stress Unité élastique Rp 0,2% k.s.l.	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.l.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Einschnürung Necking of zone Striction RA %		Resistenza Kerbschlagenergie Impact Value Resilience	Durezza Härte Hardness Dureté HB
							min	max		
A	12,5	68	L	38	83	58	71	50	140 223	

TEST	min	max
A Grain size for ASTM E112		4

1) L=lunghezza/Length, T=traversaria/Transv., Q=Temperatura/temperature

Mechanical properties according to ASTM A370.

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata/Heat Schmelze/Coulée	min - RUEX 0,030	1,00	1,25 2,00	16,50 16,00	2,00 3,00	1,00	10,00 14,00	-	0,040	0,020 0,030	0,100	-	-	-
260674	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %	-	-	-
	0,017	0,24	1,70	16,83	2,03	0,48	10,02	0,169	0,030	0,029	0,082			

Produced without class I-II Ozone depleting substances.
Solution heat treated free from continuous carbide network.
Annealing temperature: 1940°F for 7 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, 04/07/13 VCD068 (Mod. MCE2)	Il collaudatore di stabilimento / der Werkstoffverständlicher/Works Inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 2
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From: Copper and Brass Sales CA

Del.: 2403322530

CstAr

CstOr 2012-486

Wgt.: 4,383 LB

Date 08/11/2014

John L. Zambetti

ANS

Acciaierie Valbruna S.p.A.



QUALITY MANAGEMENT SYSTEM
CERTIFIED BY LLOYD'S REGISTER

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

Cliente / Besteller/Kunde
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-V113020267
Lieferungsgepäckung Nr./SL

Ordine nr 36145 STOCK CHINO
Bestell/Nr order/Commande

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

Tipo di Elaborazione: E+ACD
Erneuerungsart/Reining process/Mode of elaboration

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 matériau a été fourni conforme aux exigences

Controllo antimiscelazione: OK
Vermischungsverhinderung: geprüft/kein durchgefallen
Anti-fading testing performed: OK
Controlle antiréactance test: I.S.S.

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 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.

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

Certificato nr: MEST370874/2013/
Prüfung/Teil-Nr

Conferma ordine nr: E113005294
Werk's Our Order/Nr.

Marchio di Fabbrica:
Zeichen des Lieferanten
Trade mark
Signe de l'usine producer



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



Controllo visivo e dimensionale: soddisfatta le esigenze
Besichtigung und Abmessung: ohne Beanstandung
Visual inspection and dimensional check/satisfactory
Contrôle visuel et dimensionnel: satisfaisant

Vicenza, 04/07/13 VCO006 (Mod. MCE)	Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L'agent d'usine M. Rizzotto	Pagina - 2 di 2
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Cust

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Wgt.: 4,383 LB

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