

Acciaierie Valbruna S.p.A.



QUALITY MANAGEMENT SYSTEM
CERTIFIED BY LLOYD'S REGISTER

255992

Avviso di Spedizione: D-BZ12004921
Lieferanfrage/Packing Invoice

Ordine nr: 33759 STOCK CHINO
Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD
Erschneidungsmittel/Processing process/Mode d'elaboration

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

Certificato nr: MEST237276/2012/
Prüfung/Test/Exam

Conferma ordine nr: EI12006432
Werkz/Our Order/Plat nr.

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



Punzone del Collaudatore:
Stempel des Werkstättenverständigen
Inspector's stamp/Ponçon de l'atelier



36100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4
Clienti / Besteller/Purchaser/Client
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801-FORT WAYNE, IN 46801-US

Produttore: STABILIMENTO DI BOLZANO
Hersteller/Usine productrice

Stato di fornitura: Polished Annealed Peeled
Lieferzustand/Delivery state/Etat de livraison

Specifiche:
Anforderungen / Requirements / Exigences

VSI 0 316/316L A
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 2011A B8M CLASS1
ASTM A479 2011 S31600/03 A
QQ-S-763 F 316/316L A

AISI 316/316L
AMS-QQ-S-763 B 316/316L A
ASME SA278 2010 S31600/03 A (2)
ASTM A182 2011A S31600/03 A (5)
ASTM A278 2010 S31600/03 A
ASTM A370 2011A
MIL-S-862 B/1 316/316L

AMS 5648 L S31600 A
ASME SA182 2010 S31600/03 A (0)
ASME SA320 2010 B8M CLASS1 (3)
ASTM A193 2011A B8M CLASS1
ASTM A314 2008 S31600/03
ASTM A473 2001 S31600/03 (6)
NACE MRO175 2009 S31600/03 A (7)

- (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) ANSNACE MRO175/ISO 15166-3, 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
- (5) Chemical analysis only.
- (7) Technical circular 1:2011 Published 2011-06-14

Qualità: 316/316L / S31603
Werkstoff/Grade/Qualité

Marca: MVAPML
MAXIVAL

Tolleranza: ASTM A484-11
Toleranz/Allowance/Tolérance

Punzonatura: 316/316L
Kennzeichnung/Marking/Stampage

Pos. nr. Item nr. Nr. de poste	Oggetto Designation Product description Descr. du produit	Dimensioni - in Abmessungen 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	2,1250	137 / 155	255992		2.822	113805110

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									
TEST	Provetta/Probena Especimen/Éprouvette Lapsize/Späne Grain Size, Grain Width/ Korn, Körnung Log diam. mm	Posiz. Boglio Position Temperatur	Sneramento Strangement Heat Stress Umformung Rp 0,2% k.s.l.	Sneramento Strangement Heat Stress Umformung Rp 0,2% k.s.l.	Resistenza Zugfestigkeit Tensile strength Resistance à la traction Rm k.s.l.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione E necking Reduction of area Striction RA %	Rosizione Korrosionsrate Inped Value Resistance	Durezza Härte Hardness Dureté HB
Valori richiesti Anforderung/Required values Valeurs demandées	min max		30		75 115	40	50		140 223
A	12,5 68	L	47		91	51	70		182
TEST	Grain size for ASTM E112		min	max					
A				6					

Mechanical properties according to ASTM A370.

1]-Inghiere/Ingenieur, T-Transversalequer, O-Tangentiale/Longitudinal

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 %			
255992	0,015	0,54	1,55	16,75	2,05	0,70	10,07	0,108	0,031	0,030	0,060			

Produced without class II Ozone depleting substances.
Solution heat treated free from continuous carbide network.
Annealing temperature: 1940 °F for 1.5 h/water.
Micro and macro etch test: OK
Intergranular corrosion test per ASTM A262 pract. E: ok.
Material is DFARS Compliant

Bolzano, 12/09/12
BOL111
(Mod. MCE2)

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

M. Rizzotto

Pagina - 1 di 2

From: Copper and Brass Sales CA

Cust.

Del.: 2402339559

CstAr

CstOr

Wgt.: 473.000 LB

Date 02/28/2013

John R. Zambetti

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 (2004) , 3.1

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46801-FORT WAYNE, IN 46801-US

Produttore: **STABILIMENTO DI BOLZANO**
Hersteller/Hersteller/producer

Stato di fornitura: Polished Annealed Peeled
Lieferzustand/Delivery state/État de livraison

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

Avviso di Spedizione: D-BZ12004921
Lieferungs-/Packungszettel

Ordine nr: 33759 STOCK CHINO
Bestell./Your order/Commande

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

Certificato nr: MEST237276/2012/
Prüfung/Exam/Examen

Conferma ordine nr: E12006432
Werkz./Our Order/Ref. nr.

Marchio di Fabbrica:
Zeichen des Werksmarktes
Trade mark
Signe de l'usine productrice



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



Controllo visivo e dimensionale: soddisfa le esigenze
Sichtprüfung und Ausmessung: diese Beanspruchung
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 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.
Maximal and/or Valplus grades/products are manufactured with ladle techniques to control composition, distribution, size and shape of non-metallic inclusions for improved machinability.

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.

Bolzano, 12/09/12 BBL311 (Mod. MCB2)	Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L' agent d' usine M. Rizzotto	Pagina - 2 di 2
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