

Acciaierie Valbruna S.p.A.



QUALITY MANAGEMENT SYSTEM
CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI12000455
Lieferanzge/Packing list/B.L.

Ordine nr: 31926 STOCK CHINO
Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD
Endschmelzerguss/Finishing process/Mode d'elaboration

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

Certificato nr: MEST143118/2012/
Prüfung/Teest/Essai

Conferma ordine nr: EI11010119
Werkz/Our Order/Ref nr.

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

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



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

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

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

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

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-862 B/1 316/316L

AMS 5648 K S31600 A
ASME SA182 2010 S31600/03 A (0)
ASME SA320 2010 B8M CLASS1 (3)
ASTM A193 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
- (3) SEC.II PT.A 2010 EDITION
- (5) For products machined directly from bar refer to ASTM A478.
- (7) * ISO 15156-3. Tec. corrigendum 1 2005/02/15 & 2 2005/09/01

- (0) For products machined directly from bar refer to ASME SA478.
- (2) SEC.II PT.A 2010 EDITION
- (4) SEC.II PT.A 2010 EDITION
- (6) Chemical analysis only.

Qualità: 316/316L
Werkstoff/Grade/Nuance

Marca: APML
Markenbezeichnung/Brand/Nuance

Punzonatura: 316/316L
Kennzeichnung/Marking/Markierung

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Descr. du produit	Dimensioni - in Abmessungen Dimension Dimension	Tolleranza Toleranz Allowance Tolerance	Lunghezza - in Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Lohnr. Lot nr. Lot nr.
0010	Round	8,6250	ASREQ	207 / 209	251628		7.037	123300993

TEST ALLO STATO DI FORNITURA

Test on delivery condition Prüfung auf lieferbarem produkt test a l'etat de fourniture Prueba sobre el material así como entregado

TEST	Provetta/Probetta Spesime/Specimen Lap-size Spec. Dalle/Clap. Delle Weld Clap. Tickness Lap. size, spec. mm	°F	Posiz. Saggio Prüfung Lagepunkt Exposition	Sneramento Bruchgrenze Yield Stress Rp 0,2% k.s.l.	Sneramento Bruchgrenze Yield Stress Unter elastique	Resistenza Zugfestigkeit Tensile strength Resistencia a tracción Rm k.s.l.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Bruchdehnung Reduction of area Striction RA %	Resistenza Kerbschlagarbeit Impact Value Resilience	Durezza Härte Dureté HB
	Valori richiesti 1 Anforderungen/Requisit values Valeurs dimension	min max		30	-	75 115	- 40	- 50	-	140 223
A	12,5	68	L	40		83	58	71		170

TEST	min	max
A Grain size for ASTM E112		4

Mechanical properties according to ASTM A370.

1) L-Longitudinale/Länge, T-Transversale/quer, Q-Tangentiale/tangentiel

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 %				
251628	0,019	0,30	1,78	16,91	2,04	0,50	10,27	0,090	0,027	0,022	0,080				

Produced without class I-II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1940°F for 5,5h/water.

Micro and macro etch test: OK

Reduction ratio > 4 : 1

Interganular corrosion test per ASTM A262 pract. E: ok.

Vicenza, 10/01/12 VCC008 (Mod. MCE2)	Il collaudatore di stabilimento / der Werksschverständige / Works Inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 2
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Lieferzustand/Delivery state/Etat de livraison

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Ordine nr: 31926 STOCK CHINO
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Tipo di Elaborazione: E+AOD
Erherzeugungsmethode/Manufacturing process/Mode d'elaboration

Certificato nr: MEST143118/2012/
Prüfung/Test/Essai

Conferma ordine nr: EI11010118
Werkz./Our Order/Ref. nr.

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



Funzione del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Pointon de l'essayeur



Material is DFARS Compliant

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

Controllo antimiscelazione: OK
Vermischungsprüfung: spektrometrisch durchgeführt
Antimixing testing performed: OK
Contrôle antimélange fait: r.a.s.

Controllo visivo e dimensionale: soddisfa le esigenze
Beichtigung 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, 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, 10/01/12
VCC008
(Mod. MCE2)

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

M. Rizzotto *[Signature]*

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