

Acciaierie Valbruna s.p.a.



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

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

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

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

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

Specifiche:
Anforderungen / Requirements / Exigences

VSI 0316/316L A
AMS-QQ-S-763 B 316/316L A
ASME SA276 2010 S31600/03 A (2)
ASTM A182 2011 S31600/03 A (5)
ASTM A276 2010 S31600/03 A
ASTM A370 2011
MIL-S-882 B/1 316/316L

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

Qualità: 316/316L
Werkstoff/Grade/Qualité

Marca: APML
Markenbezeichnung/Brand/ Marque

Avviso di Spedizione: D-VI12003961
Lieferanfrage/Packing list/E.L.

Ordine nr: 32356 STOCK HOUSTON
Bestell-/Your order/Commande

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

Certificato nr: MEST156732/2012/
Prüfung/Test/Essai

Conferma ordine nr: EI12001011
Werkz/Our Order/Ret nr.

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

Punzone del Collaudatore:
Stempel des Werkstoffverständigen
Inspector's stamp/Poinçon de l'essayeur



AMS 5648 K S31600 A
ASME SA192 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 2009 S31600/03 A (7)

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

- (0) For products machined directly from bar refer to ASME SA479.
- (1) SEC.II P.T.A 2010 EDITION ADD. 2011a
- (2) SEC.II P.T.A 2010 EDITION ADD. 2011a
- (3) SEC.II P.T.A 2010 EDITION ADD. 2011a
- (4) SEC.II P.T.A 2010 EDITION ADD. 2011a
- (5) Chemical analysis only.
- (6) Technical circular 1.2011 Published 2011-09-14
- (7) Technical circular 1.2011 Published 2011-09-14

Punzonatura: 316/316L
Markenbezeichnung/Marking/ Marquage

Pos. nr. Pos. nr. Nr. de poste	Oggetto Gegegenstand Product description Descrip. du produit	Dimensioni - in Abmessungen Dimension Dimension	Tolleranza Toleranz Allowance Tolérance	Lunghezza - in Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Lochr. Lot nr.
0020	Round	1,1250	ASREQ	121 / 121	256010		6.830	121702330

TEST ALLO STATO DI FORNITURA

TEST		Provetta/Probe Longitudinale Basis Diam. 10mm Weld Diam. 12.5mm Long. diam. spez. mm	Temperatura °F	Prova Saggio Festigkeit Tensile Elongation	Snerzamento Yield Point Yield Strength Rp 0.2% k.s.l.	Snerzamento Yield Point Yield Strength k.s.l.	Resistenza Tensile Strength Tensile Strength Rm k.s.l.	Allungamento Elongation Elongation E 4d %	Strizione Reduction of Area Reduction of Area RA %	Resistenza Impact Value Impact Value Resilience	Durezza Hardness Hardness HB
Valori richiesti 1 Anforderungen/required values Valeur dimension			min max	30	-	75 115	-	40	-	50	140 223
A	12,5	68	L	38		82		58		73	167

TEST	min	max
A	Grain size for ASTM E112	4

Mechanical properties according to ASTM A370.

1) L-Longitudinale/Länge, T-Transversale/quer, Q-Tangenziale/tangential

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	-	-	-
256010	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %			
	0,022	0,45	1,73	16,58	2,08	0,46	10,02	0,086	0,030	0,022	0,082			

Produced without class II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1940°F for 7,5 h/water.

Micro and macro etch test: OK

Reduction ratio > 4 : 1

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

Vicenza, 07/02/12 VCC005 (Prod. MCEB)	Il collaudatore di stabilimento / der Werkstoffverständigen / Works Inspector / L'agent d'usine <i>M. Rizzotto</i>	Pagina - 1 di 2
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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

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

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

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

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

Material is DFARS Compliant

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

Controllo antimiscelanza: OK
Verwechslungsprüfung: spezisicherheitslich durchgeführt
Anti-leaking testing performed: OK
Contrôle antimélange fait: r.s.s.

Controllo visivo e dimensionale: soddisfa le esigenze
Beachtigung 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., 4.5 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-VI12003961
Lieferzeit/Packing list/B.L.

Ordine nr: 32358 STOCK HOUSTON
Bestell./Your order/Commande

Tipo di Elaborazione: E+AOD
Erhebungsart/Working process/Mode of elaboration

Certificato nr: MEST156732/2012/
Prüfung/Test/Basis

Conferma ordine nr: EI12001011
Werkz./Our Order/Ref. nr.

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

Pinzione del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Poligon de l' essayeur



SOLD TO: Technoworx Inc
DATE: 5-10-2012 CITY: ZPL
CUSTOMER PO#: Danko
SHIPPER NO: 240196367
BY: JP
COPPER & BRASS SALES DIVISION

Vicenza, 07/02/12
VCC008
(Mod. MCE3)

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

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