



Acciaierie Valbruna S.p.A.

38100 VICENZA (Italia) - Viale della scienza, 25 z.l.
 Telefono 0444.868211 - Fax 0444.863888
 Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4/37 -
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CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: **EN 10204 (2004), 3.1**

Certificato nr.: **MEST892958 / 2016 /**

Cliente / Besteller/Purchaser/Client
VALBRUNA STAINLESS INC,
 2400 TAYLOR STREET WEST
 48801 - FORT WAYNE, IN 48801 - US

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

Produttore:
 Hersteller/Manufacturer/Produzierendes Unternehmen
ACCIAIERIE VALBRUNA S.P.A.

Ordine nr.: **49338 STOCK CHINO**
 Bestellnr.
 Order number
 Commande

Tipo di Elaborazione: **E+AOD**
 Erzeugnisverfahren
 Manufacturing process
 Mode d'elaboration

Marchi di Fabbrica:
 Zeichen des Lieferanten
 Trade marks
 Marques de l'usine productrice

Conferma ordine nr.: **E118004981**
 Vertrags-/Auftrag/Nr.

Qualità: **316/316L**
 Werkstoff/Grade/Qualität

Punziona del Collaudatore:
 Signatur des Werkstoffprüfingenieur
 Inspector's Stamp/Signature de l'essayeur

Avviso di Spedizione: **D-V/16018339**
 Lieferzustand/Packing method

Marca: **APML**
 Markenbezeichnung
 Brand / Marque

Punzonatura: **316/316L**
 Markenbezeichnung
 Marking
 Marquage



MR

SPECIFICHE:

Anforderungen / Requirements / Exigences

Note:

Aufzeichnungen / Notes / Notes

VSI 0 316/316L A
 AISI 316/316L
 AMS 5849 L S31600 A
 AMS 5653 H S31603 A
 AMS-QQ-S-763 D 316/316L A
 ASME SA182 2015 S31600/03 A (0)
 ASME SA193 2015 B8M CLASS1 (1)
 ASME SA276 2015 S31600/03 A (2)
 ASME SA320 2015 B8M CLASS1 (3)
 ASME SA479 2015 S31600/03 A (4)
 ASTM A182 2015 S31600/03 A (5)
 ASTM A193 2015 B8M CLASS1
 ASTM A262 2015 PRACTICE E
 ASTM A276 2015 S31600/03 A
 ASTM A314 2015 S31600/03
 ASTM A320 2015A B8M CLASS1
 ASTM A370 2015
 ASTM A473 2001 S31600/03 (6)
 ASTM A479 2015 S31600/03 A
 MIL-S-882 B/1 316/316L
 NACE MR0103 2010 S31600/03 A
 NACE MR0175 2009 S31600/03 A (7)
 QQ-S-763 F 316/316L A

(0)SECTION II PTA 2015 EDITION For products machined directly from bar refer to ASME SA479.
 (1)SECTION II PTA 2015 EDITION
 (2)SECTION II PTA 2015 EDITION
 (3)SECTION II PTA 2015 EDITION
 (4)SECTION II PTA 2015 EDITION
 (5)For products machined directly from bar refer also to ASTM A479.

(6)Chemical analysis only.

(7)ANSI/NACE MR0175/ISO 15156-3, second edition 2000-10-15 Technical drawing: 1:2011 Published 2011-06-14

Tolleranza: ASTM A484-18 TABLE 3

Tolerances/Abweichungen/Tolérance

Pos. nr. Pos. nr. N. de série	Objetto Description Produit description Objet de série	Dimensioni - In		Lunghezza - In Länge Longueur	Colata Struktur Fert Casta	Pezzi Stücken Pièces Pieces	Peso - LB Gewicht Poids	Lotto nr. Loseil. Lot nr.
		Abmessungen Dimensions Dimensionen	Abweichungen Tolérance					
0080	Round	13,0000	✓	127/ 127	270508		4.866	605508630

oct 11/16
 de 1:52

Vicenza, 29/06/16

VC0006 - MEST892958 / 2016

Mod. NCE21

il collaudatore di stabilimento / der Werkstoffprüfingenieur / Works Inspector / L'agent d'usine

M. Rizzotto

Pagina - 1 di 3

From: ThyssenKrupp Materials NA

Cust. COPPER AND BRASS EDMONTON

CstAr

Wgt.: 4,504 LB

Del.: 2404792265

CstOr 5400322302

Date 09/28/2016

Thomas Sanchez

From: TK Materials CA, Ltd.

Cust. NEXXA INDUSTRIES LTD

CstAr

Wgt.: 382.840 LB

Del.: 2404808945

CstOr 80021

Date 10/07/2016

Thomas Sanchez



Acciaierie Valbruna S.p.A.

38100 VICENZA (Italia) - Viale della scienza, 25 r.l.
 Telefono 0444.862211 - Fax 0444.865636
 SpA.: 39100 BOLZANO (Italia) - Via A. Volta, 457
 Telefono 0471.824111 - Fax 0471.824467

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: **EN 10204 (2004) , 3.1**

Certificato nr. **MEST892958 / 2016 /**
 Partenza/Startzeit:

Cliente / Empfänger/Rechtsbesitzer: VALBRUNA STAINLESS INC. 2400 TAYLOR STREET WEST 48801 - FORT WAYNE, IN 48801 - US	Stato di fornitura: Forged - Annealed FORGED Lieferzustand Delivery state Etat de livraison	Produttore: Hersteller/Hersteller ACCIAIERIE VALBRUNA S.P.A.
Ordine nr. 49338 STOCK CHINO Bestell-Nr. Order no. Commande	Tipo di Elaborazione: E+AOD Bearbeitungsart Making process Herstellverfahren	Marchi di Fabbrica: Zeichen des Lieferanten Trade marks Signes de l'usine productrice
Conferma ordine nr. E18004981 Warenbestätigung Nr.	Qualità: 316/316L Material/Qualitätsklasse	Punteggi del Collaudatore: Geprüft für Werkstoffmechanik Inspected for strength/Temp. of Testpiece
Avviso di Spedizione: D-VI16018339 Versandempfehlung nach L.	Marca: APML Markenbezeichnung David (Rechts)	Punteggiatura: 316/316L Markenbezeichnung David

TEST ALLO STATO DI FORNITURA											
Tests on delivery condition / Prüfungen auf Lieferzustand / Prüfungen auf Lieferzustand / Tests a l'état de livraison / Pruebas sobre el material así como entregado											
TEST	Proveite / Prüfart Tension Test, Bolt Tens. Test, Weld Tens. Test, Exp. test, etc.	Proof Stress σ _p	Yield Strength R _{p0.2%}	Tensile Strength R _m	Elongation A _{5.65}	Reduction of Area RA	Resistance to Impact KV ₂	Hardness HB			
Value received	min	30	-	75	-	40	-	50	140		
Announced value	max			115					223		
A	12,5	68	L	38		61		74	168		

TEST ALLO STATO DI FORNITURA			
Tests on delivery condition / Prüfungen auf Lieferzustand / Tests a l'état de livraison / Pruebas sobre el material así como entregado			
TEST	min	max	
A	Grain size for ASTM E112		4

Mechanical properties according to ASTM A370.

Analisi chimica												
Chemical composition / Chemische Analyse / Analyse chimique												
Case	Test	C %	SI %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %
270508		0,012	0,38	1,69	16,54	2,01	0,36	10,02	0,155	0,030	0,030	0,057

Corrosion test in 10% sulfuric acid and copper sulfate solutions							
Test standard: ASTM A262-Practice E							
Test	Heat treatment before test	Length of Period (h)	Test temp (°C)	Bend Angle (°)	Ø spindle (mm)	Result of visual inspection at 20 x magnification after bend test	Result
Intergranular corrosion	Sensitization	16	60	180	5	Absence of cracks	SATISFACTORY

Produced without class I-II Ozone depleting substances.
 Solution heat treated free from continuous carbide network.
 Annealing temperature: 1940°F for 4 h/water.
 Micro and macro etch test: OK
 Reduction ratio = 4,7 : 1
 Material is D/FAR® Compliant

Sono state soddisfatte tutte le condizioni richieste
 Die gestellten Anforderungen sind erfüllt.
 The material has been furnished in accordance with the requirements.
 Les conditions de livraison ont été satisfaites.

Controlli anticorrosione OK
 Korrosionsprüfung befriedigend durchgeführt.
 Anticorrosion testing performed OK.
 Corrosion examination OK.

Controllo visivo e dimensionale: soddisfa le esigenze
 Sichtprüfung und Abmessung ohne Beanstandung.
 Visual inspection and dimensional checks satisfactory.
 Contrôle visuel et dimensionnel satisfaisant.

Vicenza, 29/06/16 VCD008 - MEST892958 / 2016 (Mod. MCE2)	Il collaudatore di stabilimento / der Werkseinschweißzeuge / Works Inspector / L'Agente d'usine M. Rizzotto	Pagina - 2 di 3
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From: ThyssenKrupp Materials NA
 Cust. COPPER AND BRASS EDMONTON Del.: 2404792265
 CstAr CstOr 5400322302
 Wgt.: 4,504 LB Date 09/28/2016

Thomas Sanchez

From: TK Materials CA, Ltd.
 Cust. NEXXA INDUSTRIES LTD Del.: 2404808945
 CstAr CstOr 80021
 Wgt.: 382.840 LB Date 10/07/2016

Thomas Sanchez



Acciaierie Valbruna S.p.A.

36100 VICENZA (Italia) - Viale della scienza, 25 s.l.
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 Telefono 0471.924111 - Fax 0471.924497

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In conformità a: EN 10204 (2004), 3.1

Certificato nr. MEST892958 / 2016 /

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

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

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

Ordine nr: 49338 STOCK CHINO

Tipo di Elaborazione: E+A00

Marchi di Fabbrica:
 Zeichen des Herstellers
 Trade marks
 Marques de l'usine productrice

Conforma ordine nr: EI16004881

Qualität 316/316L

Purzone del Collaudatore:
 Zweck des Nachprüfungszeugnisses
 Inspector's stamp/Sign of the Inspector

Avviso di Spedizione: D-VI16016339

Merce: APMI

Punzonatura: 316/316L

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.
QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER ACCORDING TO ISO 9001 : 2008, ISO/TS 16949 : 2009, AS 9100C
 The Custody 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 Vespis 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.

Vicenza, 29/06/16 V00008 - MEST892958 / 2016 (Mod. MCE2)	Il collaudatore di stabilimento / der Werkstattoverprüfer / Works Inspector / L'agent d'usine M. Rizzotto	Pagina - 3 di 3
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