

263441-9in.

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.l.
 Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4
 Cliente / Basestler/Purchaser/Clien
VALBRUNA STAINLESS INC.
 2400 TAYLOR STREET WEST
 46801-FORT WAYNE, IN 46801-US
 Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
 Hersteller/fabrikant/Usine producer

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI14012963
 Lieferant's/Packing list/CLL

Certificato nr: MEST502371/2014/
 Prüfung/Trial/Exam

Confirma ordine nr: E114001896
 Works/Our Order/Ref nr.

Ordine nr: 38158 STOCK CHINO
 Basest/Your order/Orders

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

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

Tipo di Elaborazione: E+AOD
 Erzeugung/Produktion/Produktionsverfahren

Funzione del Collaudatore:
 Stempel des Werkstoffprüfingen
 Inspector's stamp/Poligon de l'attestation

- Specifiche:
 Anforderungen / Requirements / Exigences
- VS1 0 316/316 L A
 - AMS 5653 H 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 2013A S31600/03 A
 - NACE MR0175 2008 S31600/03 A (7)

- ANSI 316/316L**
- AMS-QQ-S-768 B 916/316 L A
 - ASME SA278 2010 S31600/03 A (2)
 - ASTM A182 2012B S31600/03 A (5)
 - ASTM A276 2013 S31600/03 A
 - ASTM A370 2012A.
 - MIL-S-882 B/1 316/316L
 - QQ-S-763 F 316/316 L A

- 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 A479 2001 S31600/03 (6)
- NACE MR0103 2010 S31600/03 A

- (0) For products machined directly from bar refer to ASME SA479.
- (2) SEC.II FT.A 2010 EDITION ADD. 2011a
- (4) SEC.II FT.A 2010 EDITION ADD. 2011a
- (5) to ASTM A479.
- (7) ANS/NACE MR0175/ISO 15158-3, second edition 2009-10-15

- (0) SEC.II FT.A 2010 EDITION ADD. 2011a
- (1) SEC.II FT.A 2010 EDITION ADD. 2011a
- (3) SEC.II FT.A 2010 EDITION ADD. 2011a
- (5) For products machined directly from bar refer also
- (6) Chemical analysis only.
- (7) Technical circular 1:2011 Published 2011-08-14

Qualità: 316/316L
 Werkstoff/Grade/Qualität

Marca: APML
 Markenbezeichnung/Brand/Name

Tolleranza: ASTM A484-11 TABLE 3
 Toleranz/Allowance/Tolerances

Funzionatura: 316/316L
 Kennzeichnung/Marking/Markage

Pos. nr. Part. nr. N. de poste	Oggetto Product description Descr. du produit	Dimensioni - In Abmessungen Dimensions Dimension	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losenr. Lot nr. Loti nr.
0230	Round	9,0000	182 / 182	263441		3.364	404108351

TEST ALLO STATO DI FORNITURA
 Prüfung auf Lieferzustand/Produkt test a l'état de livraison

TEST	Prove/Prüfung Essai/Prüfung Long. diam. Root, End Diam, Thickn, Long diam, spall mm	°F	Posti Saggio Proben Expériences	Snervamento Bruchgrenze Yield Stress Limite élastique Rp 0,2% k.s.l.	Snervamento Bruchgrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.l.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Bruchdehnung Reduction of area Étriction		Resilienza Hartmetallwert Impact Value Resilience	Durezza Härte Hardness Dureté HB
								%	RA %		
	Valori richiesti 1 Anforderungen/Bedingungen Valeurs demandées	min max		30		75 115	40		50		140 223
A	12,5	68	L	41		82	58		73		175
TEST		min	max				5				
A	Grain size for ASTM E112										

1) L=lunghezza/length, T=traversata/width, O=Tagen/diameter

Mechanical properties according to ASTM A370.

Analisi chimica
 Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata Heat Schmelze/Coulée	min - max 0,030	1,00	1,25 2,00	16,50 16,00	2,00 0,00	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 %				
263441	0,022	0,35	1,70	16,63	2,05	0,39	10,04	0,126	0,037	0,025	0,100				

Produced without class I-II Ozone depleting substances.
 Solution heat treated free from continuous carbide network.
 Annealing temperature: 1840°F for 6 h/water.
 Micro and macro etch test OK
 Reduction ratio > 4 : 1
 Intergranular corrosion test per ASTM A262 pract. E: ok.

Vicenza, 11/04/14
 VCC005
 (Mod. MCE2)

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

Pagina - 1 di 2

From: Copper and Brass Sales CA
 Cust. NEXXA INDUSTRIES LTD.
 CstAr
 Wgt.: 1,928 LB

Del.: 2403348058
 CstOr 78803
 Date 08/22/2014

John R. Zambetti

Acciaierie Valbruna S.p.A.



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

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

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

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

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

Stato di fornitura: Forged - Annealed **FORGED**
Lieferzustand/Delivery status/Statut de livraison

Absence of cracks at 20 x magnification after bend test.
Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind in Erfüllung geblieben
The specified test have been fulfilled in accordance with the requirements
Le caractéristiques de réception ont été satisfaites

Controllo antimercuro: OK
Quecksilberprüfung: erfolgreich/erfolgreich durchgefallen
Antimony testing performed: OK
Controlle antimercure: OK

Certificato nr: MEST502871/2014/
Prüfung/Prüfbericht

Conforma ordine nr: E114001866
Werkstoff/Orderfall nr.

Marchio di Fabbrica:
Zusammen des Lieferanten
Trade mark
Sigle de l'usine/producer



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

Controllo visivo e dimensionale: soddisfa le esigenze
Beisichtigung und Abmessung: ohne Beanstandung
Visual inspection and dimensional check/satisfactory
Controlle visuel et dimensionnel: satisfait

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 1,3,4,3 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, 11/04/14 vccas (Mod. M02)	Il collaudatore di stabilimento / der Werkstoffprüfer / Works Inspector / L' agent d' usine <i>M. Rizzotto</i>	Pagina - 2 di 2
--	---	-----------------

From: Copper and Brass Sales CA
Cust. NEXXA INDUSTRIES LTD.
CstAr
Wgt.: 1,928 LB

Del.: 2403348058
CstOr 78803
Date 08/22/2014

John R. Zambetti