

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

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

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

Avviso di Spedizione: D-VII 4015036
 Lieferungs/Packing list/L

Certificato nr: MEST510933/2014/
 Prüfung/Inspection

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

Ordine nr: 38139 STOCK POMPTON
 Bestell/Your order/Commande

Conferma ordine nr: E114001823
 Works/Our Order/Plat nr.

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

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

Punzone del Collaudatore:
 Stempel des Werkstoffprüfingen/Inspector's stamp/Plombon de l'essayeur



Spezifikation: Anforderungen / Requirements / Exigences

VSI 0 316/316L 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 2009 S31600/03 A (7)

ANSI 316/316L
 AMS-QQ-S-763 B 316/316L A
 ASME SA276 2010 S31600/03 A (2)
 ASTM A182 2012B S31600/03 A (5)
 ASTM A276 2013 S31600/03 A
 ASTM A370 2012A
 MIL-S-862 B/1 316/316L
 QQ-S-763 F 316/316L A

AMS 5648 L S31600 A
 ASME SA182 2010 S31600/03 A (0)
 ASME SA320 2010 B8M CLASS1 (5)
 ASTM A193 2011A B8M CLASS1
 ASTM A314 2008 S31600/03
 ASTM A473 2001 S31600/03 (6)
 NACE MR0103 2010 S31600/03 A

- (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 also
- (6) Chemical analysis only.
- (7) Technical circular 1.2011 Published 2011-06-14

- (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) to ASTM A479.
- (7) ANSI/NACE MR0175/ISO 15156-3, second edition 2009-10-15

Quantità: 316/316L
 Material/Grade/Numancia

Pos. nr. Pos. Nr. Item nr. Nr. de pozitie	Oggetto Designation Product description Descript. du produit	Dimensioni - in Abmessungen Dimension Dimension	Lunghezza - in Länge Length Longueur	Colata Formatura Heat Coulée	Pezzi Stücken Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Loseil. Lot nr. Lote nr.
0030	Round	15,0000	128 / 128	263464		6.565	402008380

TEST ALLO STATO DI FORNITURA

TEST	Provetta/Probenschein Specimen/Éprouvette Lapideira Esp. / Baffle Spec. / Watt Clam. / Watt Clam. / Lap. de ensa. / mm	Prova Staggio Prova Lapideira Esp. / mm	Snervamento Strain Yield Stress Limite elasticità Rp 0,2% k.s.l.	Snervamento Strain Yield Stress Limite elasticità Rp 0,2% k.s.l.	Resistenza Tensile strength Tension / Rm k.s.l.	Allungamento Elongation Elongation Elongation E % E 4d %	Strizione Strain Reduction of area Strain %	Resilienza Resilience Impact Value Resilience	Durezza Hardness Hardness Durezza HB
TEST	Valori richiesti / Anforderungen / Requirements / Exigences	min max	30	-	75 115	- 40	- 50	-	140 223
A	12,5	68	L	38	81	62	74	168	
TEST	A Grain size for ASTM E112				min max				4

Mechanical properties according to ASTM A370.

Analisi chimica

Colata / Heat Erzeugnis / Heat	min - max	1,00 0,030	1,25 2,00	16,50 16,00	2,00 3,00	10,00 14,00	0,000 0,030	0,100			
	C %	SI %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %
263464	0,017	0,26	1,73	16,77	2,07	0,87	10,09	0,115	0,030	0,022	0,081

Produced without class I-II Ozone depleting substances.
 Solution heat treated free from continuous carbide network.
 Annealing temperature: 1940 °F for 9 h/water.
 Micro and macro etch test: OK
 Reduction ratio > 4 : 1
 Intergranular corrosion test per ASTM A262 pract. E: ok.

Vicenza, 05/05/14
 VCC004
 (Mod. MCE2)

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

June 19/17

From: TK Materials CA, Ltd.
 Cust. NEXXA INDUSTRIES LTD
 CstAr
 Wgt.: 987.430 LB
 Del.: 2405258487
 CstOr 80109
 Date 06/06/2017

Thomas Sanchez

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, 26 z.l.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Clienti / Destinatari/Purchaser/Client
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2400 TAYLOR STREET WEST
48801-FORT WAYNE, IN 48801-US

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

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

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

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

Controllo antimercanzia: OK
Verwechslungsfrei; sprichstoffsicher durchgeführt
Assembly testing performed: OK
Contrôle antimercande fait: r.a.s

Controllo visivo e dimensionale: soddisfa le esigenze
Besichtigung und Ausmessung: ohne Beanmerkung
Visual inspection and dimensional check: satisfactory
Contrôle visuel et dimensionnel: satisfaisant

Molten 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 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.

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VH14015036
Lieferanfrage/Packing list/B.L.

Ordine nr: 38139 STOCK POMPTON
Bestel/Your order/Commande

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

Certificato nr: MEST510933/2014/
Prüfung/Test/Fraud

Conferma ordine nr: E114001823
Werkz/Our Order/Ref. n.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Logo de l'usine producer



Punzone del Collaudatore:
Stempel des Werkwerksverordnungs
Inspector's stamp/Person de l'essayeur



Vicenza, 05/05/14
V320001
(Mod. MCF2)

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

M. Rizzotto

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Thomas Sarrade