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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

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

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

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

- Specifiche:
 Anforderungen / Requirements / Edigencies
- VSJ 0 316/316L A
 - AMS 5653 H S31603 A
 - ASME SA193 2010 B8M CLASS1 (1)
 - ASME SA479 2010 S31600/03 A (4)
 - ASTM A282 2010, PRACTICE E
 - ASTM A320 2011A B8M CLASS1
 - ASTM A479 2013A S31600/03 A
 - NACE MR0175 2009 S31600/03 A (7)

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI14012932
 Lieferanzug/Packing List/L

Ordine nr: 38005 STOCK CHINO
 Bestell/Jour order/Commande

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

Certificato nr: MEST502370/2014/
 Prüfung/Test/Essai

Conferma ordine nr: E114001636
 Werk/Our Order/Ref nr.

Marchio di Fabbrica:
 Zeichen des Lieferwerkes
 Trade mark
 Étiquette de l'usine production



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

- 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 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 2011-08-14

- (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) ANSINACE MR0175/ISO 15166-3, second edition 2009-10-15

Qualità: 316/316L
 Werkstoff/Grade/Qualité

Marca: APML
 Markenbezeichnung
 Brand/Signature

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

Punzonatura: 316/316L
 Kennzeichnung/Marking/Attestage

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Objet Product description Descr. du produit	Dimensioni - in Abmessungen Dimension Dimension	Lunghezza - in Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losnr. Lot nr. Lot nr.
0020	Round	10,0000	144 / 144	263709		6.689	400907550

TEST ALLO STATO DI FORNITURA
 Test on delivery condition Prüfung auf Lieferbereitem produkt test à l'état de fourniture Prueba sobre el material así como entregado

TEST	Provetta/Probes Specimen/Éprouvette Longitudinale Longitudinale Fract. Char. Ubbelohde Weld Char. Thickens Long. dir. spot mm	°F	Posiz. Saggio Position Éprouvette	Snervamento Streckgrenze Yield Stress Limite élastique Limite statique Rp 0,2% K.S.L.	Snervamento Streckgrenze Yield Stress Limite élastique Limite statique	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm K.S.L.	Allungamento Bruchdehnung Elongation Alongement E 4d %	Strizione Zugversetzung Reduction of area Briction RA %	Resilienza Hartmetallwert Impact Value Resilience	Durezza Härte Hardness Dureté HB
Valori richiesti Anforderung/Required value Valeurs demandées	min max			30	-	75 115	- 40	- 50	-	140 223
A	12,5	68	L	40		84	58	72		176

TEST	min	max
A Grain size for ASTM E112		5

1) L=lunghezza/Länge, T=traverso/quer, Q=Tagenzial/longitudinal

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	18,50 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 %				
263709	0,017	0,29	1,81	16,56	2,02	0,50	10,00	0,131	0,032	0,025	0,090				

Produced without class I-II Ozone depleting substances.
 Solution heat treated free from continuous carbide network.
 Annealing temperature: 1940°F for 7 h/water.
 Micro and macro etch test: OK
 Reduction ratio > 4 : 1
 Intergranular corrosion test per ASTM A282 pract. E: ok.

Vicenza, 11/04/14 VCC008 (Mod. MCE2)	Il collaudatore di stabilimento / der Werkstachverständiger/ Works Inspector / L'agent d'usine <i>M. Rizzotto</i>	Pagina - 1 di 2
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From: TK Materials CA, Ltd.

Cust. ATLANTIS INDUSTRIES

CstAr

Wgt.: 64 LB

Del.: 2404350812

CstOr Bozo

Date 02/05/2016

Thomas Sanchez

Acciaierie Valbruna s.p.A.



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

38100 VICENZA (Italia) - Viale della scienza, 25 z.l.
 Stab.: 38100 BOLZANO (Italia) - Via A. Volta, 4

Clienti / Kunden / Purchasers / Clients
VALBRUNA STAINLESS INC.
 2400 TAYLOR STREET WEST
 46801-FORT WAYNE, IN 46801-US

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

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

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

Se non state soddisfatte tutte le condizioni richieste
 die gegebenen Anforderungen sind lt. Anlage erfüllt.
 The material has been furnished in accordance with the requirements
 Le matériel a été fourni conforme aux exigences

Controllo antimiscelanza: OK
Vermischungsprüfung spezifiziert/tech durchgeführt
 Antiskating testing performed OK
 Contrôle antimitange fait R.A.L.

Controllo visivo e dimensionale: soddisfa le esigenze
Die Maßgröße und Ausmessung ohne Beanstandung
 Visual inspection and dimensional checked/satisfactory
 Contrôle visual et dimension: 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. 4.3 by TUEV and LLOYD' 8
 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 Product.

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI14012982
Lieferanweisung/Shipping Instruction

Ordine nr: 38005 STOCK CHINO
Bestell-Nr/Order/Commande

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

Certificato nr: MEST502970/2014/
Prüfung/Teurzeugnis

Conferma ordine nr: EI14001836
Werk/Dur Order/Fel nr.

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



Funzione del Collaudatore:
 Stempel des Werkssachverständigen
 Inspector a stamp/Peignon de l'Assesseur



Vicenza, 11/04/14
 v02008
 (mod. NCE2)

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

M. Rizzotto

Pagina - 2 di 2

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