

Acciaierie Valbruna S.p.A.



QUALITY MANAGEMENT SYSTEM
CERTIFIED BY LLOYD'S REGISTER

256010
(3-572)

6"
CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004), 3.1

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
48801-FORT WAYNE, IN 46801-US

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

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

Avviso di Spedizione: D-VI12001373
Lieferanweisung/Packing list/B.L.

Ordine nr: 31928 STOCK CHINO
Bestell./Your order/Commande

Tipo di Elaborazione: E+AOD
Erneuerungsart/Refining process/Mode de fabrication

Certificato nr: MEST146587/2012/
Prüfung/Test/Besam

Confirma ordine nr: EI11010119
Works/Our Order/Ref. nr.

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



Funzione del Collaudatore:
Stempel des Werkstättüberwacher
Inspector's stamp/Plombon de l'inspecteur

Specifiche:
Anforderungen / Requirements / Edigences

VSI 0 316/316L A
AMS-QQ-S-783 B 316/316L A
ASME SA278 2010 S31600/03 A (2)
ASTM A182 2011 S31600/03 A (5)
ASTM A278 2010 S31600/03 A
ASTM A370 2011
MIL-S-882 B/1 316/316L

AMS 5848 K S31600 A
ASME SA182 2010 S31600/03 A (1)
ASME SA320 2010 B8M CLASS1 (3)
ASTM A193 2011 B8M CLASS1
ASTM A314 2008 S31600/03
ASTM A473 2001 S31600/03 (6)
NACE MR0175* 2003 S31600/03 (7)

AMS 5853 F S31603 A
ASME SA193 2010 B8M CLASS1 (1)
ASME SA479 2010 S31600/03 A (4)
ASTM A282 2010 PRACTICE E
ASTM A320 2011 B8M CLASS1
ASTM A479 2011 S31600/03 A
QQ-S-783 F 316/316L A

- (0) SEC.II PT.A 2010 EDITION
- (1) SEC.II PT.A 2010 EDITION
- (3) SEC.II PT.A 2010 EDITION
- (5) For products machined directly from bar refer to ASTM A479.
- (7) * ISO 15156-3, Tec. complementum 1 2005/02/15 & 2 2005/09/01

- (0) For products machined directly from bar refer to ASME SA479.
- (2) SEC.II PT.A 2010 EDITION
- (4) SEC.II PT.A 2010 EDITION
- (6) Chemical analysis only.

Qualità: 316/316L
Werkstoff/Grade/Qualität

Marca: APML
Markenbezeichnung/Brand/Markenname

Punzonatura: 316/316L
Markenzeichnung/Marking/Markage

Poz. nr. Pos. nr. N.º de poste	Oggetto Object description Descr. du produit	Dimensioni - in Abmessungen Dimension	Tolleranza Tolerance Tolérance	Lunghezza - in Länge Length Longueur	Colata Schmelze Fusé	Pezzi Stückzahl Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Lothnr. Lot nr.
0010	Round	8,6250	ASREQ	209 / 209	256010		3.572	123300990

TEST ALLO STATO DI FORNITURA Test on delivery condition Prüfung auf lieferbarem Produkt test a l'état de fourniture Prueba sobre el material así como entregado										
TEST	Provetta/Probe Longitud Spec. With Char. Thickness Log. dim. épau. mm	°F	Posti. Suppl. Prova Expériment.	Snervamento Yield strength Limite élastique Rp 0,2% k.s.l.	Snervamento Tensile strength Limite élastique	Resistenza Elongation Tensile strength Rupture à traction Rm k.s.l.	Allungamento Elongation Allongement E 4d %	Strizione Elongation Réduction de section RA %	Resistenza Impact Value Resilience	Durezza Hardness Cure HB
	Valori richiesti 1 Anforderungen/Requisit values Valeurs demandées	min max		30	-	75 115	40	50	-	140 223
A	12,5	68	L	39	-	84	61	74	-	187
TEST			min	max						
A	Grain size for ASTM E112				4					

Mechanical properties according to ASTM A370.

1) L=longitudinale/änge, T=transversale/quer, O=Trasversale/longitudinale

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		
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %	
256010	0,022	0,45	1,76	16,58	2,08	0,46	10,02	0,096	0,030	0,022	0,082	

Produced without class I-II Ozone depleting substances.
Solution heat treated free from continuous carbide network.
Annealing temperature: 1940 °F for 5,5 h/water.
Micro and macro etch test: OK
Reduction ratio > 4 : 1
intergranular corrosion test per ASTM A262 pract. E: ok.

Vicenza, 17/01/12 VCC000 (Mod. MCEZ)	Il collaudatore di stabilimento / der Werkstättüberwacher / Works Inspector / L'agent d'usine M. Rizzotto	Page - 1 di Thèse certification n.º: for: Delivery # 256010 Date: 15/01/12 Qty: 210512 Crystal meranda
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INSPECTION CERTIFICATE
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46801-FORT WAYNE, IN 46801-US

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

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

Avviso di Spedizione: D-VI12001373
Lieferanfrage/Packing list/S.L.

Ordine nr: 31926 STOCK CHINO
Bestell./Your order/Commande

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

Certificato nr: MEST146587/2012/
Prüfung/Test/Essai

Confirma ordine nr: EI11010119
Werkz./Our Order/Ref. nr.

Marchio di Fabbrica:
Zeichen des Werks/Werkes
Trade mark
Sigle de l'usine producer



Punzone del Collaudatore:
Stempel des Werksachverständigen
Inspector's stamp/Pointon de l'essayeur



Material is DFARS Compliant

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

Controllo antimescolanza: OK
Verwechslungsprüfung: spektralanalytisch durchgeführt
Antimixing testing performed: OK
Contrôle antimeslange fait: r.s.s.

Controllo visivo e dimensionale: soddisfa le esigenze
Beichtigung 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. 4.3 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.

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Vicenza, 17/01/12

VOC008
(Mod. MCE2)

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

M. Rizzotti

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