

257439

Acciaierie Valbruna S.p.A.



QUALITY MANAGEMENT SYSTEM
CERTIFIED BY LLOYD'S REGISTER

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

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

Avviso di Spedizione: D-VI12018062
Lieferungs/Packing Invoice

Certificato nr: MEST211617/2012/
Prüfung/Taxi/Essai

Confirma ordine nr: EI12004895
Werte/Our Order/Fact n.

Produttore: ACCIAIERIE VALBRUNA S.P.A.
Hersteller/Fabrik/Usine producție

Ordine nr: 33392 STOCK CHINO
Bestell/Your order/Comanda

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



Stato di fornitura: - Annealed FORGED
Lieferzustand/Delivery state/Stat de livrare

Tipo di Elaborazione: E+AOD
Erzeugnisverfahren/Manufact process/Modo d'elaboration

Punzone del Collaudatore:
Stempel des Werkstoffverständigen
Inspector's stamp/Poligon de l'essai

Specifiche:
Anforderungen / Requirements / Exigences

VS1 0 316/316L A
AMS 5653 F 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 2011 S31600/03 A
QQ-S-763 F 316/316L A

ANSI 316/316L
AMS-QQ-S-763 B 316/316L A
ASME SA276 2010 S31600/03 A (2)
ASTM A182 2011A S31600/03 A (5)
ASTM A276 2010 S31600/03 A
ASTM A370 2011A
MIL-S-882 B/1 316/316L

AMS 5648 K 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 MR0175 2008 S31600/03 A (7)

- (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 to ASTM A478.
- (7) ANSI/NACE MR0175/ISO 15166-3, second edition 2009-10-15

- (0) For products machined directly from bar refer to ASME SA478.
- (2) SEC.II PT.A 2010 EDITION ADD. 2011a
- (4) SEC.II PT.A 2010 EDITION ADD. 2011a
- (6) Chemical analysis only.
- (7) Technical circular 1:2011 Published 2011-06-14

Qualità: 316/316L
Werkstoff/Grade/Numéro

Marca: APML	Tolleranza: ASTM A484-10 TABLE 3	Punzonatura: 316/316L
Pos. nr. 0020	Objetto Round	Dimensioni - In 8,5000
		Lunghezza - In 197 / 198
		Colata 257439
		Pezzi 6.786
		Peso - LB 134104740

TEST ALLO STATO DI FORNITURA									
TEST	Provetta/Probes	Temperatura °F	Snervamento Rp 0,2% k.s.l.	Snervamento Yield Stress Limit design	Resistenza Tensile strength Rm k.s.l.	Allungamento Elongation E 4d %	Strizione Reduction of area RA %	Resilienza Impact Value Footcandle	Durezza Hardness HB
	Valori richiesti 1	min	30	-	75	40	-	50	140
	max	max	39	-	115	60	-	-	223
A	12,5	68	L	39	84	60	69		167

TEST	min	max
A Grain size for ASTM E112		4

Mechanical properties according to ASTM A370.

1) L - lunghezza/Length, T - trasversale/cross, O - Tangenziale/circumfer

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata / Heat	min - max	1,00	1,25	18,50	2,00	1,00	10,00	-	0,040	0,020	-	-	-
Scarna/Coil	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %		
257439	0,023	0,25	1,72	16,81	2,04	0,63	10,08	0,116	0,029	0,026	0,093		

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.
Material is DFARS Compliant

These certificates are for:
Delivery # 257439
Date: 13/06/12
By: M. Rizzotti
Quality check

Vicenza, 13/06/12 VCC008 (Mod. MCE2)	Il collaudatore di stabilimento / der Werkstoffverständigen / Works Inspector / L'agent d'usine M. Rizzotti	Pagina - 1 di 2
--	--	-----------------

Acciaierie Valbruna S.p.A.



QUALITY MANAGEMENT SYSTEM
CERTIFIED BY LLOYD'S REGISTER

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Clienti / Besteller/Purchaser/Client
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
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

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

Controllo antiriscottatura: OK
Verwechslungsprüfung: spezifiziert/techn durchgeführt
Anfärbung testing performed: OK
Contrôle antiréchauffage fait: r.a.s.

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'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.

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

Certificato nr: MEST211617/2012/
Prüfung/Test/Essai

Confirma ordine nr: EN12004895
Werkz/Our Order/Fiel nr.

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



Funzione del Collaudatore:
Stempel des Werkstoffverständigen
Inspector's stamp/Plombon de l'essayeur



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

<p>Vicenza, 13/06/12 VCC008 (Prod. MCE2)</p>	<p>Il collaudatore di stabilimento / der Werkstoffverständigen / Works Inspector / L' agent d' usine <i>M. Rizzotto</i></p>	<p>Pagina - 2 di 2</p>
--	---	------------------------