

250152

# Acciaierie Valbruna S.p.A.



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

Cliente / Buyer/Purchaser/Client  
**VALBRUNA STAINLESS INC.**  
2400 TAYLOR STREET WEST  
46801-FORT WAYNE, IN 46801-USA

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

Oggetto Prove: - Annealed FORGED  
Prüfungsbefehl/Exam. Inspection/Intestat.

Arrivo di Spedizione: D-VI10002090  
Lieferungsgepäcknummer/L.S.

Ordine nr: 25990 STOCK HOUSTON  
Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD  
Erzeugungsverfahren/Manufacturing process/Mode d'élaboration

## CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2005) , 3.1

Certificato nr: MEST826638/2010  
Prüfung/Test/Essai

Confirma ordine nr: E109007068  
Werkstoff-Order/Nr.

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



Funzione del Collaudatore:  
Funktions des Werkstoffprüfenden  
Inspector's stamp/Postepon de l'essayeur

Specifiche:  
Anforderungen / Requirements / Exigences

- VSI 0 316/316L A
- AMS-QQ-S-763 B 316/316L A
- ASME SA276 2007 S31600/03 A 2
- ASTM A182 2009A S31600/03 A 8
- ASTM A276 2008A S31600/03 A
- ASTM A370 2009A.
- MIL-S-882 B/1 316/316L
- (0) SEC.II PT.A 2007 EDITION ADD. 2008a
- (1) SEC.II PT.A 2007 EDITION ADD. 2008a
- (3) SEC.II PT.A 2007 EDITION ADD. 2008a
- (5) Chemical analysis only and mechanical properties.
- (7) \* ISO 15156-3

- AMS 5848 K S31600 A
- ASME SA182 2007 S31600/03 A 8
- ASME SA320 2007 B8M CLASS1 9
- ASTM A193 2009 B8M CLASS1
- ASTM A314 2008 S31600/03
- ASTM A473 2001 S31600/03 6
- NACE MR0175\* 2003 S31600/03 7

- AMS 5653 F S31603 A
- ASME SA193 2007 B8M CLASS1 (1)
- ASME SA479 2007 S31600/03 A (4)
- ASTM A262 2002A PRACTICE E
- ASTM A320 2008 B8M CLASS1
- ASTM A479 2008 S31600/03 A

- 0Chemical analysis only and mechanical properties.
- 2SEC.II PT.A 2007 EDITION ADD. 2008a
- 4SEC.II PT.A 2007 EDITION ADD. 2008a
- 6Chemical analysis only.

Qualità: 316/316L  
Werkstoff/Grade/Qualität

Marca: APML  
Markenbezeichnung/Brand/Qualität

Punzonatura: 316/316L  
Kennzeichnung/Marking/Länge

Pos. nr. Item nr. Nr. de poste	Oggetto Designation Produit description Design. de produit	Dimensioni - in Abmessungen Dimension Dimension	Tolleranza Toleranz Allowance Tolérance	Lunghezza - in Länge Length Longueur	Colata Schmelze Melt Coulée	Pezzi Stückzahl Pieces	Peso - LB Gewicht Weight Poids	Lotto nr. Lose Lot nr.
0190	Round	13,1563	ASREQ	173 / 173	250152		6.790	926900441

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 livré conforme aux exigences

Controllo antimiscelazione: OK  
Verwechslungsprüfung: spezialsprachlich durchgeführt  
Authenticating testing performed: OK  
Contrôle antimélange: bon

Controllo visivo e dimensionale: soddisfa le esigenze  
Sichtprüfungsprüfung: ohne Beanstandung  
Visual inspection and dimensional check/satisfactory  
Contrôle Visuel et dimension: satisfaisant

TEST ALLO STATO DI FORNITURA									
Test on delivery condition / Prüfung auf Lieferbareitem / produit / test à l'état de livraison / Prueba sobre el material así como entregado									
TEST	Prove/Prüfung Long term tests Stahl Data. Data Weld Data. Data Long term tests mm	°F	Proof Stress Yield strength Rp 0,2% k.s.l.	Tensile Tensile strength Yield strength Rp 0,2% k.s.l.	Resistenza Zugfestigkeit Yield strength Rp 0,2% k.s.l.	Allungamento Bruchdehnung Elongation Allongement	Stirazione Strain Reduction of area RA	Resilienza Wuchtgewicht Impact Value Resilience	Durezza Härte Dureza HB
Valori richiesti 1 Anforderungswerte Values standards		min max	30	-	75 115	- 40	- 50	-	140 223
A	12,5	68 L	37	-	81	61	76	-	164
TEST	min		max						
A	Grain size for ASTM E112				4				

Mechanical properties according to ASTM A370.

HL=longitudinale/Blage, T=transversale/Quer, G=Temperaturabhängig

### Analisi chimica

Chemische Zusammenfassung/Chemical Analysis/Analyse chimique

Colata /test Schmelze/Castile	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 0,030	0,100	-	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %				
250152	0,018	0,32	1,70	16,51	2,15	0,69	10,17	0,100	0,032	0,030	0,073				

Produced without class I-II Ozone depleting substances.  
Solution heat treated free from continuous carbide network.  
Annealing temperature: 1940°F for 8,5 h/water.  
Micro and macro etch test: OK

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VALBRUNA STAINLESS INC.  
2400 TAYLOR STREET WEST  
46801-FORT WAYNE, IN 46801-USA

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

Objekt/Prova: - Annealed FORGED  
Prüfgegenstand/Item inspected/Prüfprobe

Avviso di Spedizione: D-V110002090  
Lieferungs/Packing list/B.L.

Ordine nr: 25990 STOCK HOUSTON  
Bestell/Your order/Commande

Tipo di Elaborazioni: E+AOD  
Ergebnisbeurteilung/Making process/Mode of elaboration

## CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2005) , 3.1

Certificato nr: MEST826638/2010/  
Prüfung/Inspection

Conferma ordine nr: E109007068  
Werk/Our Order/Ref. nr.

Marchio di Fabbrica:  
Zeichen des Unternehmens  
Trade mark:  
Blogs de l'usine productrice



Funzione del Collaudatore:  
Stempel des Werk/sachverständigen  
Inspector's stamp/Fonction de l'essayeur



Reduction ratio > 4 : 1

Intergranular corrosion test per ASTM A262 pract. E: ok.  
Material is DFARS Compliant

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