

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.i.
 Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4
 Telephone number : 0039 (0) 444968211

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Cliente / Besteller/Purchaser/Client
VALBRUNA U.K. LTD.
 OLDBURY ROAD
 B70 9BH-WEST BROMWICH B70 9BH GB-GB

Avviso di Spedizione: D-VI14016177
 Lieferanzeige/Packing list/B.L.

Certificato nr: MEST514778/2014/
 Prüfung/Test/Essai

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

Ordine nr: 404044676 STOCK
 Bestell/Your order/Commande

Conferma ordine nr: EI14004378
 Works/Our Order/Ref nr.

Marchio di Fabbrica:
 Zeichen des Lieferwerkes
 Trade mark
 Sigle de l'usine productrice



Stato di fornitura: Hot rolled Descaled Annealed Hot rolled
 Lieferzustand/Delivery state/Etat de livraison

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

Punzone del Collaudatore:
 Stempel des Werkssachverständigen
 Inspector's stamp/Poinçon de l'essayeur



Specifiche:
 Anforderungen / Requirements / Exigences

VAL STOCK 2010 1.4404/316L A
 ASME SA182 2010 S31600 A (0)
 ASME SA276 2010 S31600 A (3)
 ASME SA479 2010 S31600 A (6)
 ASTM A182 2012B S31603 (9)
 ASTM A276 2013 S31600 A
 ASTM A320 2011A B8M CLASS1
 DIN 17440 96 1.4401 A
 EN 10088-3 2005 1.4404 A
 NACE MR0103 2010 S31600 A
 NACE MR0175 2009 S31603 A (B)

AISI 316
 ASME SA182 2010 S31603 A (1)
 ASME SA276 2010 S31603 A (4)
 ASME SA479 2010 S31603 A (7)
 ASTM A193 2011A B8M CLASS1
 ASTM A276 2013 S31603 A
 ASTM A479 2013A S31600 A
 DIN 17440 96 1.4404 A
 EN 10272 2007 1.4401 A
 NACE MR0103 2010 S31603 A

AISI 316L
 ASME SA193 2010 B8M CLASS1 (2)
 ASME SA320 2010 B8M CLASS1 (5)
 ASTM A182 2012B S31600 A (8)
 ASTM A262 2010. PRACTICE E
 ASTM A314 2008 S31600
 ASTM A479 2013A S31603 A
 EN 10088-3 2005 1.4401 A
 EN 10272 2007 1.4404 A
 NACE MR0175 2009 S31600 A (A)

- (0) SEC.II PT.A 2010 EDITION ADD. 2011a
- (1) SEC.II PT.A 2010 EDITION ADD. 2011a
- (2) SEC.II PT.A 2010 EDITION ADD. 2011a
- (3) SEC.II PT.A 2010 EDITION ADD. 2011a
- (4) SEC.II PT.A 2010 EDITION ADD. 2011a
- (5) SEC.II PT.A 2010 EDITION ADD. 2011a
- (6) SEC.II PT.A 2010 EDITION ADD. 2011a
- (7) For products machined directly from bar refer also
- (8) For products machined directly from bar refer also
- (9) For products machined directly from bar refer also
- (A) ANSI/NACE MR0175/ISO 15156-3, second edition 2009-10-15
- (B) ANSI/NACE MR0175/ISO 15156-3, second edition 2009-10-15

- (0) For products machined directly from bar refer to ASME SA479.
- (1) For products machined directly from bar refer to ASME SA479.
- (2) SEC.II PT.A 2010 EDITION ADD. 2011a
- (3) SEC.II PT.A 2010 EDITION ADD. 2011a
- (4) SEC.II PT.A 2010 EDITION ADD. 2011a
- (5) SEC.II PT.A 2010 EDITION ADD. 2011a
- (6) SEC.II PT.A 2010 EDITION ADD. 2011a
- (7) SEC.II PT.A 2010 EDITION ADD. 2011a
- (8) to ASTM A479.
- (9) to ASTM A479.
- (A) Technical circular 1:2011 Published 2011-06-14
- (B) Technical circular 1:2011 Published 2011-06-14

Qualità: 1.4401/1.4404/316/316L
 Werkstoff/Grade/Nuance

Marca: **APML**
 Markenbezeichnung
 Brand/Nuance

Tolleranza: Tol. DIN 1017
 Tolleranz./Allowance/Tolerance

Punzonatura: 1.4401/4/316/L
 Kennzeichnung/Marking/Marquage

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Descrip. du produit	Dimensioni - mm Abmessungen Dimension Dimension	Lunghezza - mm Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pieces	Peso - KG Gewicht Weight Poids	Lotto nr. Losnr. Lot nr. Lot nr.
0010	Flat	50,000 x 20,000	6000 / 6200	263633		987,0	329804830

TEST ALLO STATO DI FORNITURA

Test on delivery condition Prüfung auf lieferbarem produkt test a l'etat de fourniture Prueba sobre el material así como entregado

TEST	Provetta/Probetas Specimen/Eprouvette Lang diam Spalt: Breite Diam. Dicke Width Diam. Thickness Lang. diam. epais mm	°C	Posiz. Saggio Position Location Emplacement 1)	Snervamento	Snervamento	Resistenza	Allungamento		Strizione		Resilienza			Durezza
				Streckgrenze Yield Stress Limite elastic Rp 0,2% N/mm2	Streckgrenze Yield Stress Limite elastic Rp 1% N/mm2	Zugfestigkeit Tensile strength Resistance à traction Rm N/mm2	A5 %	E 4d %	Z %	RA %	Kerbschlagarbeit Impact Value Resilience KV J			Haerte Hardness Durete HB
				205	240	515 690	40	40	-	50	100			-
	Valori richiesti 1 Anforderungen/Required values Valeurs demandées	min max												215
A	10	20	L	323	378	617	51	54	73	73	242	236	245	185

TEST	min	max
B	Grain size for ASTM E112	6

1)L=longitudinale/längs, T=transversale/quer, Q=Tangenziale/tangential

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata /Heat Schmelze/Coulée	min - max 0,030	1,00	2,00	16,50 18,00	2,00 2,50	10,00 13,00	0,045	0,030	0,100	-	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Ni %	P %	S %	N %					
263633	0,022	0,50	1,28	16,68	2,00	10,11	0,031	0,026	0,072					

Intergranular corrosion test per ASTM A262 pract. E: ok.
 Absence of cracks at 20 x magnification after bend test.

Vicenza, 09/05/14 VCC008 (Mod. MCE2)	Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 2
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F12032
 3/8" Medium Pressure Female Equal Tee 20K