



QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Telefono 0444.968211 - Fax 0444.963836
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4/37
Telefono 0471.924111 - Fax 0471.924497

Cliente / Besteller/Purchaser/Client

VALBRUNA U.K. LTD.
OLDBURY ROAD
B70 9BH - WEST BROMWICH B70 9BH GB - GB.

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

Stato di fornitura : Hot rolled - Annealed Cold Drawn
Lieferzustand / Delivery state
Etat de livraison

Avviso di Spedizione: D-VI15019899
Lieferanzeige/Packing list/B.L.

Ordine nr: 506047656 Sheffield
Bestell Your order Commande

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

Certificato nr: MEST722156/2015/

Prüfung/Test/Essai

Conferma ordine nr: EI15005843

Werks/Our Order/Ref nr.

Marchio di Fabbrica:

Zeichen des Lieferwerkes
Trade mark
Sigle de l'usine produttrice

Punzone del Collaudatore:
Stempel des Werksachverständigen
Inspector's stamp/Poinçon de l'assesseur



MR

Specifiche:
Anforderungen / Requirements / Exigences

VAL STOCK 2010 1.4404/316L A,CF
AMS 5648 L S31600 A
ASME SA182 2013 S31603 A (1)
ASME SA479 2013 S31600 A (4)
ASTM A182 2014A S31603 (7)
ASTM A276 2013A S31603 A,CF
ASTM A370 2014 .
EN 10088-3 2005 1.4401 A,CF
EN 10272 2007 1.4404 A,CF
NACE MR0103 2010 S31603 A
QQ-S-763 F 316 A,CF

AISI 316
AMS 5653 H S31603 A,CF
ASME SA276 2013 S31600 A,CF (2)
ASME SA479 2013 S31603 A (5)
ASTM A262 2013 PRACTICE E
ASTM A314 2008 S31600
ASTM A479 2014 S31600 A
EN 10088-3 2005 1.4404 A,CF
ISO 6892-1 2009 .
NACE MR0175 2009 S31600 A (8)
QQ-S-763 F 316L A,CF

AISI 316L
ASME SA182 2013 S31600 A (0)
ASME SA276 2013 S31603 A,CF (3)
ASTM A182 2014A S31600 A (6)
ASTM A276 2013A S31600 A,CF
ASTM A314 2008 S31603
ASTM A479 2014 S31603 A
EN 10272 2007 1.4401 A,CF
NACE MR0103 2010 S31600 A
NACE MR0175 2009 S31603 A (9)

- (0)SEC. II PT.A 2013 EDITION
- (1)SECTION II PT.A 2013 EDITION
- (2)SEC. II PT.A 2013 EDITION
- (4)SECTION II PT.A 2013 EDITION
- (6)For products machined directly from bar refer also
- (7)For products machined directly from bar refer also
- (8)ANSI/NACE MR0175/ISO 15156-3, second edition 2009-10-15
- (9)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.
- (3)SECTION II PT.A 2013 EDITION
- (5)SECTION II PT.A 2013 EDITION
- (6)to ASTM A479.
- (7)to ASTM A479.
- (8)Technical circular 1:2011 Published 2011-06-14
- (9)Technical circular 1:2011 Published 2011-06-14

Qualità: 1.4401/1.4404/316/316L

Werkstoff/Grade/Nuance

Marca: MVAPML
Markenbezeichnung Brand/Nuance MAXIVAL

Tolleranza: h11 - DIN668/EN10278
Tolleranza/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. Loehr. Lot nr. Lot nr.
0020	Hexagon	32,000	3190/ 3190	266824		827,0	431707820

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/Probtestab Specimen/Eprouvette Larg diam Spess. Breite Diam Dicke Width Diam Thickness Larg. diam. epais mm	°C	Posiz. Saggio Disposition Location Empacement 1)	Snervamento Streckgrenze Yield Stress Limite elastique Rp 0,2% N/mm2	Snervamento Streckgrenze Yield Stress Limite elastique Rp 1% N/mm2	Resistenza Zugfestigkeit Tensile strength Resistance à traction Rm N/mm2	Allungamento Bruchdehnung Elongation Allongement		Strizione Einschnürung Reduction of area Striction		Resilienza Kerbschlagarbeit Impact Value Resilience KV J			Durezza Haerte Hardness Durete HB	
							A5 %	E 4d %	Z %	RA %	100	140 235			
Valori richiesti Anforderungen/Required values Valeurs demandées		min max		207	235	517 900	20	30	-	50	100	140 235			
A	10	20	L	432	508*	656	47	49	66	66	172	189	198	221	

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	min	max
B Grain size for ASTM E112		5

Mechanical properties according to ASTM A370.
Tensile testing according to EN ISO 6892-1

FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL

Vicenza, 14/07/15

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