



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 produtrice

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

Specifiche:
Anforderungen / Requirements / Exigences

VAL STOCK 2010 1.4404/316L A,CF
AMS 5648 L S31600 A
ASME SA182 2013 S31603 A (1)
ASME SA276 2013 S31603 A,CF (4)
ASME SA479 2013 S31603 A (7)
ASTM A193 2014A B8M CLASS1
ASTM A276 2013A S31603 A,CF
ASTM A479 2014 S31600 A
EN 10088-3 2005 1.4401 A
EN 10272 2007 1.4404 A
NACE MR0103 2010 S31603 A
QQ-S-763 F 316 A,CF

- (0)SEC.II PT.A 2013 EDITION
- (1)SECTION II PT.A 2013 EDITION
- (2)SECTION II PT.A 2013 EDITION
- (4)SECTION II PT.A 2013 EDITION
- (6)SECTION II PT.A 2013 EDITION
- (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

Qualità: 1.4401/1.4404/316/316L

Werkstoff/Grade/Nuance

Marca: **MVAPML
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. Losnr. Lot nr. Lot nr.
0070	Hexagon	69,850	3010/ 3100	267057		2043,0	435006190

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/Probostab Specimen/Eprouvette Lang. diam Spess. Breite Diam. Dicke Width Diam. Thickness Larg. diam. epais mm	°C	Posiz. Saggio Probenlage Location Emplacement 1)	Snervamento	Snervamento	Resistenza	Allungamento		Strizione		Resilienza			Durezza	
				Streckgrenze Yield Stress Limite elastique Rp 0,2%	Streckgrenze Yield Stress Limite elastique Rp 1%	Zugfestigkeit Tensile strength Resistance à traction Rm	Bruchdehnung Elongation Allongement A5	E 4d	Einschnürung Reduction of area Striction Z	RA	Kerbschlagarbeit Impact Value Resilience KV	J	Haerte Hardness Durete HB	HB	
Valori richiesti				min	max	207	240	517	40	35	-	50	100	140	
Anforderungen/Required values Valeurs demandées						700								215	
A	10	20	L	461	523	670	44	47	68	68	185	178	171	211	
B	10	20	L	469	531	675	43	46	67	67	181	184	180	212	

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	
A	Grain size for ASTM E112			5

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TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL

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

F12203

2" BSPP Cone Seat Male x 1/2" NPT Female Hex Adaptor 10K

Vicenza, 01/07/15 VCQ008 (Mod. MCE2) WSP746DE26F70C741BE848337DB8D76EB4D	Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 2
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QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

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Avviso di Spedizione:
 Lieferanzeige/Packing list/B.L. D-VI15018681

Ordine nr: 412046422 CMP
 Bestell
 Your order
 Commande

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

Certificato nr: MEST715153/2015/
 Prüfung/Test/Essai

Conferma ordine nr: EI14012886
 Werks/Our Order/Ref nr.

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



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

MR

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata /Heat Schmelze/Coulée	min - max	-	1,25 2,00	16,50 18,00	2,00 2,50	- 1,00	10,00 13,00	- 0,040	0,030	- 0,100	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	P %	S %	N %				
267057	0,019	0,49	1,49	16,79	2,03	0,56	10,13	0,028	0,027	0,066				

Intergranular corrosion test per ASTM A262 pract. E: ok.

Absence of cracks at 20 x magnification after bend test.

I.Korrosion nach EN ISO 3651-2A Sensibilisierung : T1 : OK

Corrosion test per EN ISO 3651-2A sensitized T1 : OK

Reduction ratio = 7,9 : 1

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COPY OF ORIGINAL

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

Controllo antimiscelanza: OK
 Verwechslungsprüfung: spectralanalytisch durchgeführt
 Antimixing testing performed: OK
 Contrôle antimélange fait: r.a.s.

Controllo visivo e dimensionale: soddisfa le esigenze
 Besichtigung und Ausmessung: ohne Beanstandung
 Visual inspection and dimensional checks:satisfactory
 Contrôle visuel et dimensions: 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 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.

Maxival and/or Valplus grades/products are manufactured with ladle techniques to control composition, distribution, size and shape of non-metallic inclusions for improved machinability.

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.

Vicenza, 01/07/15

VCQ008

(Mod. MCE2)

WSP746DE26F70C741BE848337DB8D76EB4D

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

M. Rizzotto

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