



**CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION**

In conformità a: **EN 10204 (2004) , 3.1 / ISO 10474 (2013) , 3.1**

Certificato nr. **MEST386282 / 2019 /**  
 Prüfung/Test/Essai

Cliente / Besteller/Purchaser/Client  
**VALBRUNA CANADA LTD**  
**8724 HOLGATE CRESCENT**  
**L5T 5Z1 - MILTON, ONT L5T 5Z1 - CA**

Stato di fornitura: **Hot rolled - Annealed Peeled**  
 Lieferzustand  
 Delivery state  
 Etat de livraison

Produttore:  
 Hersteller/Werks/Usine productrice

**ACCIAIERIE VALBRUNA S.P.A.**

Ordine nr: **808007098**  
 Bestell  
 Your order  
 Commande

Tipo di Elaborazione: **E+AOD**  
 Erzeugnisart  
 Making process  
 Mode d'elaboration

Marchi di Fabbrica:  
 Zeichen des Lieferwerkes  
 Trade marks  
 Signes de usine productrice



Conferma ordine nr: **EI18008502**  
 Werks/Our Order/Ref. nr.

Qualità: **304/304L**  
 Werkstoff/Grade/Usine

Punzone del Collaudatore:  
 Stempel des Werkssachverständigen  
 Inspector's Stamp/Plaqueon de l'essayeur

**MR**

Avviso di Spedizione: **D-VI19009106**  
 Lieferzustand/Packing list/B.L.

Marca: **MVAISL ( MAXIVAL )**  
 Markenbezeichnung  
 Brand / Nuance

Punzonatura: **304/304L**  
 Kennzeichnung  
 Marking  
 Marcage

SPECIFICHE :	Note
Anforderungen / Requirements / Edgences	Aufzeichnungen / Notes / Notes
VSI 0 304/304L A	
AISI 304/304L	
AMS 5639 J S30400 A	
AMS 5647 K S30403 A	
AMS-QQ-S-763 D 304/304L A	
ASME SA182 2017 S30400/03 A (0)	(0)Section II Part A 2017 EDITION For products machined directly from bar refer to ASME SA479.
ASME SA193 2017 B8 CLASS 1 (1)	(1)Section II Part A 2017 EDITION
ASME SA276 2017 S30400/03 A (2)	(2)Section II Part A 2017 EDITION
ASME SA320 2017 B8 CLASS1 (3)	(3)Section II Part A 2017 EDITION
ASME SA479 2017 S30400/03 A (4)	(4)Section II Part A 2017 EDITION
ASTM A182 2018 S30400/03 A (5)	(5)For products machined directly from bar refer also to ASTM A479.
ASTM A193 2017 B8 CLASS 1	
ASTM A262 2015 PRACTICE E	
ASTM A276 2017 S30400/03 A	
ASTM A314 2015 S30400/03	
ASTM A320 2017A B8 CLASS1	
ASTM A370 2017 .	
ASTM A473 2001 S30400/03 (6)	(6)Chemical analysis only.
ASTM A479 2018 S30400/03 A	
MIL-S-862 B/1 304/304L	
NACE MR0103 2015 S30400/03 A (7)	(7)ANSI/NACE MR0103/ISO 17845 November 23, 2015
NACE MR0175 2015 S30400/03 A (8)	(8)ANSI/NACE MR0175/ISO 15156-3, third edition November 23,2015
QQ-S-763 F 304/304L A	

Tolleranza: ASTM A484-18 TABLE 3

Pos. nr. Pos. nr. No. de piece	Oggetto Objekt Produit description Description du produit	Dimensioni - In		Lunghezza - In Länge Length Longueur	Colata Ergüsse Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losn. Lot nr. Lot nr.
		Dimensionen Dimensions	Dimensionen Dimensions					
0090	Round	6,2500		136/ 136	277600	1	1.217	824303760

Vicenza, 25/03/19

VCC008 - MEST386282

(Mod. MCE2)

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

**M.RIZZOTTI**

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 Etat de livraison

Produttore:  
 Hersteller/Nam/Usine productrice

**ACCIAIERIE VALBRUNA S.P.A.**

Ordine nr: 808007098  
 Bestell: Your order  
 Commande

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

Marchi di Fabbrica:  
 Zeichen des Lieferanten  
 Trade marks  
 Signes de l'usine productrice



Conferma ordine nr: EI18008502  
 Werk/Our Order/Ref. nr.

Qualità: 304/304L  
 Werkstoff/Grade/Qualite

Punzone del Collaudatore:  
 Stempel des Werksachverständigen  
 Inspector's stamp/Ingenieur de l'essayeur

MR

Avviso di Spedizione: D-VI19009106  
 Lieferanzeige/Packing instr.L.

Marca: MVAISL ( MAXIVAL )  
 Markenbezeichnung  
 Brand / Marque

Punzonatura: 304/304L  
 Kennzeichnung  
 Marking  
 Marquage

TEST ALLO STATO DI FORNITURA												
Test on delivery condition / Prüfung auf lieferbarem produkt / test a l'etat de fourniture / Prueba sobre el material asi como entregado												
TEST	Proveita/ Probeita	F	Post. Sagge	Snervamento	Snervamento	Resistenza	Allungamento	Strizione		Resistenza	Durezza	
	Speichern/Erspardein Long. diam. Spere. Brutto Diam. Dicke Wahl Diam. Thickness Long. diam. spere mm		mm	Yield Stress Limite elastique Rp 0,2% t.s.l.	Tensile Stress Yield Stress Limite elastique	Tensile strength Resistencia a traccion Rm t.s.l.	Elongation Bruchdehnung Stapfen Allongement E 4d %	Reduction of area Reduktion RA %	Impact Value Resilienz	Hardness Harden Durete HB		
Valori richiesti		min		30	-	75	-	40	-	50	-	140
Anforderungen/Requisit values Valores requeridos		max				115						223
A	12,5	68	L	41		83		61		70		164

TEST ALLO STATO DI FORNITURA				
Test on delivery condition / Prüfung auf lieferbarem produkt / Test a l'etat de fourniture / Prueba sobre el material asi como entregado				
TEST	min	max		
A Grain size for ASTM E112			4	

Mechanical properties according to ASTM A370.

Analisi chimica												
Chemische Zusammensetzung/Chemical Analysis/Analyse chimique												
Colata / Abcast	mm -	-	-	18,00	-	-	8,00	-	-	0,020	-	-
Schmelze/Coulee	max 0,030	1,00	2,00	20,00	1,00	1,00	10,50	-	0,040	0,030	0,100	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %	
277600	0,012	0,47	1,32	18,32	0,44	0,50	8,01	0,133	0,031	0,025	0,072	

Corrosion test in 16% sulfuric acid and copper sulfate solutions							
Test standard: ASTM A262-Practice E							
Test	Heat treatment before test	Length of Period (h)	Test temp (°C)	Bend Angle (°)	Ø spindle (mm)	Result of visual inspection at 20 x magnification after bend test	Result
Intergranular corrosion	Sensitization	15	boil	180	5	Absence of cracks	SATISFACTORY

Produced without class I-II Ozone depleting substances.  
 Solution heat treated free from continuous carbide network.  
 Micro and macro etch test : OK  
 Reduction ratio = 11,1 : 1  
 Annealing temperature : 1976° F for 3.5 h/water.  
 Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste Die gestellten Anforderungen sind erfüllt The material has been furnished in accordance with the requirements Le material a été livré conforme aux exigences	Controllo antimescolanza: OK Verwechslungsprüfung: spektralanalytisch durchgeführt Antimixing testing performed: OK Contrôle antimeslange fait: r.s.t.	Controllo visivo e dimensionale: soddisfatta le esigenze Beachtung und Ausmessung: ohne Beanstandung Visual inspection and dimensional checks satisfactory Contrôle visuel et dimensionnel: satisfaisant
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# Acciaierie Valbruna S.p.A.

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.  
Telefono 0444.968211 - Fax 0444.963836  
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4/17  
Telefono 0471.924111 - Fax 0471.924497

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Mode d'elaboration

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Sigles de l'usine productrice



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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.

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER ACCORDING TO ISO 9001 : 2015, IATF 16949 : 2016, AS 9100D

The Quality Management System is Certified acc. Pressure Equipment Directive 2014/68/EU Annex 1, chap.4.3 by TJEV 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, 25/03/19

VCC006 - MEST386282

(Mod. MCE2) REPUBBLICA ITALIANA

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

M. RIZZOTTO

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