McMASTER-CARR®

Certificate

562-692-5911
562-695-2323 (fax)
la.sales@mcmaster.com

Purchase Order	Order Date	Placed By	McMaster-Carr Number	Number of Certificates
PO26442267	11/4/2026	Christopher Berger	8302956-02	1

Line		Product	Ordered	Status	Certificate
4	8992K141	Multipurpose 304 Stainless Steel Bar, 3/4" Thick, 2" Wide, 1/2 Feet Long, Hot Rolled	1 each	1 each delivers November 5	334–0295

Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.

From: Valbruna Stainless Inc Date: 7/25/2025 To: T W METALS, INC SO#: B384353 Ln#: 1 PO#: M 12022279 Part: 07535 Qty: 9015 Heat#: 284317
Tag: V9109603A Page: 1 of 3

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, 4/37 Telefono 0471.924111 - Fax 0471.924497
https://www.valbruna-stainless-steel.com/

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION - CERTIFICADO DE INSPECCIÓN

In conformità a : EN 10204 (2004) , 3.1 / ISO 10474 (2013) , 3.1
Nach/According to/Selon/De conformidad con

Certificato nr. MEST009875 / 2025 /
Prüfung/Test/Essai/Num. de certificado

Cliente / Besteller/Purchaser/Client/Cliente
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801 - FORT WAYNE, IN 46801 - US

Ordine nr: 91096 STOCK POMPTON
Bestell
Your order
Commande
Num. de pedido

Conferma ordine nr: EI25000426
Werks/Our Order/Ref nr.
Num. de confirmación de pedido

Avviso di Spedizione: D-VI25001587
Lieferanzeige/Packing list/B.L.
Aviso de embarque

Stato di fornitura : Hot rolled Annealed Pickled
Lieferzustand
Delivery state
Etat de livraison
Estado de la entrega

Tipo di Elaborazione: E+AOD
Erschmelzungsart
Melting process
Mode d'elaboration
Método de fusión

Qualità: 304/304L
Werkstoff/Grade/Nuance
Calidad

Marca: AISL
Markenbezeichnung
Brand / Nuance / Marca

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

Marchi di Fabbrica: AV
Zeichen des Lieferwerkes
Trade marks
Sigles de l'usine productrice
Marcas de fábrica

Punzone del Collaudatore: MR
Stempel des Werkssachverständigen
Inspector's stamp/Poinçon de l'assayeur
Sello del Comprobador

Punzonatura: 304/304L
Kennzeichnung
Marking
Marquage / Sello

SPECIFICHE :
Anforderungen / Requirements / Exigences / Especificaciones

VSI 0/3 304/304L A
AISI . 304/304L
AMS 5639 K S30400 A
AMS 5647 M S30403 A
AMS-QQ-S-763 D 304/304L A
ASME SA182 2023 S30400/03 A (0)
ASME SA193 2023 B8 CLASS 1 (1)
ASME SA276 2023 S30400/03 A (2)
ASME SA320 2023 B8 CLASS 1 (3)
ASME SA479 2023 S30400/03 A (4)
ASTM A182 2024C S30400/03 A (5)
ASTM A193 2024A B8 CLASS 1
ASTM A262 PR. E 2015 304/304L (6)
ASTM A276 2024A S30400/03 A
ASTM A314 2024 S30400/03
ASTM A320 2024A B8 CLASS 1
ASTM A473 2024A S30400/03 (7)
ASTM A479 2024 S30400/03 A
MIL-S-862 B/1 304/304L
NACE MR0103 2015 S30400/03 A (8)
NACE MR0175 4 S30400/03 A (9)
QQ-S-763 F 304/304L A

Note:
Aufzeichnungen / Notes / Notes / Notas

(0)Section II Part A 2023 EDITION For products machined directly from bar refer to ASME SA479.
(1)Section II Part A 2023 EDITION
(2)Section II Part A 2023 EDITION
(3)Section II Part A 2021 EDITION
(4)Section II Part A 2023 EDITION
(5)For products machined directly from bar refer also to ASTM A479.
(6)Reapproved 2021
(7)Chemical analysis only.
(8)ANSI/NACE MR0103/ISO 17945 November 23, 2015
(9)ANSI/NACE MR0175/ISO 15156-3:2020 Fourth edition, approved 21 Sep 2022.

Tolleranza: ASTM A484-24B TAB 5
Toleranz/Allowance/Tolerance/Tolerancia

Pos. nr. Pos. nr. / Item nr. Nr. de poste Número de artículo	Oggetto Gegenstand / Product description Descrip. du produit Descripción del producto	Dimensioni - In Abmessungen Dimension Dimension / Dimensiones	Lunghezza - In Länge Length Longueur / Longitud	Colata Schmelze Heat Coulée / Colada	Pezzi Stückzahl Pieces Pieces / Piezas	Peso - LB Gewicht Weight Poids / Peso	Lotto nr. Loosnr. Lot nr. Lot nr. / Lote nro.
0030	Flat	2,0000 x 0,7500	144,0/153,5	284317		3.003	424109701

TEST ALLO STATO DI FORNITURA

TEST		min	max	
A	Grain size for ASTM E112			5

TW Metals
AUG 12 2025
Test Report

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

Vicenza, 24/01/2025	Direzione Qualità	Direzione Prodotto	Pagina
VCQ008 - MEST009875	Qualitätsmanagement/Quality Management/Gestion Qualité/Gerente de calidad	Produktmanagement/Product Management/Direction Produit/Gerente de producto	1 di 3
	R.BERTELLI	P.MESSORI	

From: Valbruna Stainless Inc Date: 7/25/2025 To: T W METALS, INC SO#: B384353 Ln#: 1 PO#: M 12022279 Part: 07535 Qty: 9015 Heat#: 284317
Tag: V9109603A Page: 2 of 3

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Stato di fornitura : Hot rolled Annealed Pickled
Lieferzustand
Delivery state
Etat de livraison
Estado de la entrega

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Erschmelzungsart
Melting process
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ACCIAIERIE VALBRUNA S.P.A.

Marchi di Fabbrica: AV
Zeichen des Lieferwerkes
Trade marks
Sigles de l'usine productrice
Marcas de fábrica

Punzone del Collaudatore: MR
Stempel des Werkssachverständigen
Inspector's stamp/Poinçon de l'assayeur
Sello del Comprobador

Punzonatura: 304/304L
Kennzeichnung
Marking
Marquage / Sello

Test on delivery condition per ASTM A370

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

TEST	Provetta/ Probestab Specimen/Eprouvette Larg.diam Spess. Breite Diam. Dicke Width Diam. Thickness Larg. diam. epais mm / Probeta	°F		Posiz. Saggio Probenlage Location Emplacement Ubicación 1)	Snervamento Streckgrenze/Yield Stress Limite elastique Límite elástico Rp 0,2% k.s.i.	Snervamento Streckgrenze/Yield Stress Limite elastique Límite elástico	Resistenza Zugfestigkeit/Tensile strengt Resistance à traction Resistencia a la tracción Rm k.s.i.	Allungamento Bruchdehnung Elongation Allongement / Elongación E 4d %		Strizione Einschnürung Reduction of area Striction / Reducción de área RA %		Resilienza Kerbschlagarbeit Impact Value/ Resilience Prueba de Impacto			Durezza Haerte Hardness Dureta / Dureza HB		
Valori richiesti Anforderungen/Required values Valeurs démandées / Valoras requeridos		min			30	-	75	-	40	-	50	-			140		
		max					115								235		
B	12,5	68	L		44		87		51		68				178		

AEROSpeed 0,005/min up to yeld-0,05/min to rupture

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

TEST	Provetta/ Probestab Specimen/Eprouvette Larg.diam Spess. Breite Diam. Dicke Width Diam. Thickness Larg. diam. epais mm / Probeta	°F		Posiz. Saggio Probenlage Location Emplacement Ubicación 1)	Snervamento Streckgrenze/Yield Stress Limite elastique Límite elástico Rp 0,2% k.s.i.	Snervamento Streckgrenze/Yield Stress Limite elastique Límite elástico	Resistenza Zugfestigkeit/Tensile strengt Resistance à traction Resistencia a la tracción Rm k.s.i.	Allungamento Bruchdehnung Elongation Allongement / Elongación E 4d %		Strizione Einschnürung Reduction of area Striction / Reducción de área RA %		Resilienza Kerbschlagarbeit Impact Value/ Resilience Prueba de Impacto			Durezza Haerte Hardness Dureta / Dureza		
Valori richiesti Anforderungen/Required values Valeurs démandées / Valoras requeridos		min			30	-	75	-	40	-	50	-			-		
		max															
D	12,5	68	L		43		87		53		69						

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique/Análisis químico

Colata/Heat/Coulée		C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %				
Schmelze/Colada	min	-	-	-	18,00	-	-	8,00	-	-	0,020	-	-	-	-	-
	max	0,030	1,00	2,00	20,00	1,00	1,00	10,50	-	0,040	0,030	0,100	-	-	-	-
284317		0,016	0,44	1,84	18,36	0,48	0,48	8,04	0,156	0,033	0,024	0,092				

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 = 33,5 : 1
Material solution annealed 1940°F for 1 h/water cooled.
Material is DFARS Compliant

TW Metals
AUG 12 2025

Test Report

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Kennzeichnung / Marking / Marquage / Sello

Sono state soddisfatte tutte le condizioni richieste	Controllo antimescolanza con tecnica XRF/OES portatile : OK	Controllo visivo e dimensionale: soddisfa le esigenze
Die gestellen Anforderungen sind it. Anlage erfüllt / The material has been furnished in accordance with the requirements / Le materiel à été trouvé conforme aux exigences / El material cumple de acuerdo a los requisitos	Verwechslungprüfung: durch XRF/OES Gerät geführt : OK / Antimixing testing performed with XRF/OES portable : OK / Contrôle antimélange avt technique XRF/OES portable : OK / Prueba de anti mezcla con técnica XRF/OES portátil: OK	Besichtigung und Ausmessung: ohne Beanstandung / Visual inspection and dimensional checks:satisfactory / Contrôle visuel et dimensions: satisfaisant / Inspección visuel y dimensional: cumple los requisitos

Melted, poured 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 by the portal system when it leaves the production plant.

The Quality Management System is also Certified according to Pressure Equipment Directive 2014/68/EU Annex 1,chapt.4.3 by TÜV and LLOYD`S
The Quality Management System is also Certified according to PER 2016/1105, Schedule 2, Part 4, Para 31 (8) by Competent Body TÜV SUD BABT Unlimited.
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.

WSP0587641D662DA62EAB2EA73FA62EA52E

TW Metals

AUG 1 2 2025

Test Report