



Acciaierie Valbruna S.p.A.

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

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

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

Certificato nr. **MEST061455 / 2022 /**
 Prüfung/Test/Essai

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

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

Produttore:
 Hersteller/Item/Usine productrice

ACCIAIERIE VALBRUNA S.P.A.

Ordine nr: 78514 **STOCK LAWRENCEV**
 Bestell Your order Commande

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

Marchi di Fabbrica:
 Zeichen des Lieferwerkes Trade marks Siglas de fusino productrice



Conferma ordine nr: EI22007013
 Werks/Our Order/Ref nr.

Qualità: 304/304L
 Werkstoff/Grade/Nuance

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

MR

Avviso di Spedizione: D-VI22017204
 Lieferanzeige/Packing list/B.L.

Marca: AISL
 Markenbezeichnung Brand / Nuance

Punzonatura: 304/304L
 Kennzeichnung Marking Marquage

SPECIFICHE :

Anforderungen / Requirements / Exigences

Nota:

Aufzeichnungen / Notes / Notes

VSI 0/2 304/304L A
 AISI . 304/304L
 AMS 5639 J S30400 A
 AMS 5647 L S30403 A
 AMS-QQ-S-763 D 304/304L A
 ASME SA182 2021 S30400/03 A (0)
 ASME SA193 2021 B8 CLASS 1 (1)
 ASME SA276 2021 S30400/03 A (2)
 ASME SA320 2021 B8 CLASS 1 CLASS1 (3)
 ASME SA479 2021 S30400/03 A (4)
 ASTM A182 2021 S30400/03 A (5)
 ASTM A193 2020 B8 CLASS 1
 ASTM A262 PR. E 2015 304/304L (6)
 ASTM A276 2017 S30400/03 A
 ASTM A314 2019 S30400/03
 ASTM A320 2018 B8 CLASS 1
 ASTM A473 2021 S30400/03 (7)
 ASTM A479 2021 S30400/03 A
 MIL-S-862 B/1 304/304L
 NACE MR0103 2015 S30400/03 A (8)
 NACE MR0175 2015 S30400/03 A (9)
 QQ-S-763 F 304/304L A

(0)Section II Part A 2021 EDITION For products machined directly from bar refer to ASME SA479.
 (1)Section II Part A 2021 EDITION
 (2)Section II Part A 2021 EDITION
 (3)Section II Part A 2021 EDITION
 (4)Section II Part A 2021 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, third edition November 23,2015

Tolleranza: ASTM A484-21 TABLE 13

Toleranz/Allowance/Tolerance

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Descrip. du produit	Dimensioni - In Abmessungen Dimension Dimension	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Loehr. Lot nr. Lot nr.
0030	Angle Shape	1,000 x 1,000 x 0,1250	240/ 246	288911		5.933	134918871

TEST ALLO STATO DI FORNITURA

TEST	min	max
A Grain size for ASTM E112		6

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

Vicenza, 27/06/2022
 VCCQ52 - MEST061455

Direzione Qualità
 Qualitätsmanagement/Quality Management/Gestion Qualité
R.BERTELLI

Direzione Prodotto
 Produktmanagement/Product Management/Direction Produit
P.MESSORI

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 Lieferzustand: **rolled**
 Delivery state:
 Etat de livraison:

Produttore:
 Hersteller/Item/Usine productrice

ACCIAIERIE VALBRUNA S.P.A.

Ordine nr: **78514 STOCK LAWRENCEV**
 Bestell: **Your order**
 Commande

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

Marchi di Fabbrica:
 Zeichen des Lieferanten:
 Trade marks:
 Sigles de fusine productrice



Conferma ordine nr: **EI22007013**
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Qualità: **304/304L**
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Punzone del Collaudatore:
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Avviso di Spedizione: **D-VI22017204**
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Marca: **AISL**
 Markenbezeichnung:
 Brand / Nuance

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

Test on delivery condition per ASTM A370

TEST	Provetta/ Probe Specimen/Eprovette Long diam. Spec. Bore Diam. Dicke Width Diam. Thickness Long. diam. epais mm	°F	Posiz. Saggio Probesage Location Emplacement	Snervamento Streckgrenze Yield Stress Limite elastique Rp 0,2% k.s.l.		Resistenza Zugfestigkeit Tensile strength Resistance à traction Rm k.s.l.		Allungamento Bruchdehnung Elongation Allongement E 4d %		Strizione Einschränkung Reduction of area Striction RA %		Resilienza Kerbschlagarbeit Impact Value Resilience		Durezza Härte Hardness Dureté HB	
				min	max	min	max	min	max	min	max	min	max	min	max
Valori richiesti Anforderungen/Required values Valeurs demandées				30	-	75	-	40	-	50	-	-	140	235	
B	20X3.1	68	L	49		93		51		67			184		

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

TEST	Provetta/ Probe Specimen/Eprovette Long diam. Spec. Bore Diam. Dicke Width Diam. Thickness Long. diam. epais mm	°F	Posiz. Saggio Probesage Location Emplacement	Snervamento Streckgrenze Yield Stress Limite elastique Rp 0,2% k.s.l.		Resistenza Zugfestigkeit Tensile strength Resistance à traction Rm k.s.l.		Allungamento Bruchdehnung Elongation Allongement E 4d %		Strizione Einschränkung Reduction of area Striction RA %		Resilienza Kerbschlagarbeit Impact Value Resilience		Durezza Härte Hardness Dureté	
				min	max	min	max	min	max	min	max	min	max	min	max
Valori richiesti Anforderungen/Required values Valeurs demandées				25	-	70	-	40	-	50	-	-	-	-	
D	20X3.1	68	L	49		92		52		69					

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata /Heat Schmelze/Couée	min - max	0,030	1,00	2,00	18,00 20,00	1,00	1,00	8,00 10,50	-	0,040	0,020 0,030	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %				
288911	0,016	0,51	1,72	18,07	0,50	0,52	8,05	0,129	0,027	0,027	0,089				

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 = 216,0 : 1
 Material annealed 1940°F for 0.5h/water cooled.
 Material is DFARS Compliant

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

Vicenza, 27/06/2022 VCQ052 - MEST061455	Direzione Qualità Qualitätsmanagement/Quality Management/Gestion Qualité R. BERTELLI	Direzione Prodotto Produktmanagement/Product Management/Direction Produit P. MESSORI	Pagina 2 di 3
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Sono state soddisfatte tutte le condizioni richieste
 Die gestellten Anforderungen sind lt. Anzeige erfüllt
 The material has been furnished in accordance with the requirements
 Le matériel a été trouvé conforme aux exigences

Controllo antimiscelanza con tecnica XRF/OES portatile : OK
 Verwechslungsprüfung: durch XRF/OES Gerät geführt : OK
 Antimixing testing performed with XRF/OES portable : OK
 Contrôle antimélange svt technique XRF/OES portable : OK

Controllo visivo e dimensionale: soddisfa le esigenze
 Beschäftigung und Ausmessung: ohne Beanstandung
 Visual inspection and dimensional check:satisfactory
 Contrôle visuel et dimension: satisfaisant

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 Pressure Equipment Directive 2014/68/EU Annex 1, chapt.4.3 by TÜV 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.

WSP0R0270020E0000170ACDF01248780A

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

Vicenza, 27/06/2022
 VCQ052 - MEST061455

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