



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

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

Certificato nr. MEST167495 / 2017 / 1

Nach/According to/Selon

Prüfung/Test/Exam

Cliente / Besteller/Purchaser/Client  
 VALBRUNA NORDIC AB  
 LOVARTS GATAN 7  
 65221 - KARLSTAD - SWEDEN - SE

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

Prodotto da:  
 Hersteller/Item/Usine productrice

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

Ordine nr. F34601 Y00343  
 Bestell  
 Your order  
 Commande

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

Marchi di Fabbrica:  
 Zeichen des Lieferwerkes  
 Trade mark  
 Sigles de l'usine productrice



Conferma ordine nr. SP17001910  
 Werks/Our Order Ref.n.

Qualità: N02200/N02201  
 Werkstoff/Grade/Nuance

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

MR

Avviso di Spedizione: D-VI17033868  
 Lieferanzeige/Packing list/B.L.

Marca: SG1  
 Markenbezeichnung  
 Brand / Nuance

Punzonatura: N02200/N02201  
 Kennzeichnung  
 Marking  
 Marque

### SPECIFICHE

Note:

Anforderungen / Requirements / Exigences

Aufzeichnungen / Notes / Notes

ASME SB160 2015 N02200 A (0)  
 ASME SB160 2015 N02201 A (1)  
 ASME SB564 2015 N02200 ROLLED A (2)  
 ASTM B160 2005 N02200 A  
 ASTM B160 2005 N02201 A  
 ASTM B564 2017A N02200 ROLLED A (3)  
 BS 3076 19 NA 11 A,HW  
 BS 3076 19 NA 12 A,HW

(0)SECTION II PT.B 2015 EDITION  
 (1)SECTION II PT.B 2015 EDITION  
 (2)SECTION II PT.B 2015 EDITION Chemical analysis only and mechanical properties.  
 (3)Chemical analysis only and mechanical properties.

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Descrip. du produit	Tolleranza: k12 Tolleranza/Allowance/Tolerance		Lunghezza - mm Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - KG Gewicht Weight Poids	Lotto nr. Losnr. Lot nr. Lot nr.
		Dimensioni - mm Abmessungen Dimension Dimension						
0020	Round	40,000		4330/ 4469	262137	20	490,0	317806821

### 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/ Probe Sagittale/Eprouvette Längs/Direction Spess. Weite/Dia. Dicke Width/Dia. Thickness Larg. diam. epais mm	°C	Posiz. Saggio Probenlage Location Emplacement	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	Durezza Haerte Hardness Durete
							A5 %	E 4d %			
Valori richiesti Anforderungen required values valeurs requises		min max		105	130	380	35	40	-	-	-
A	10	20	L	176	196	409	52	55	87	87	

### Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata /Heat Schmelze/Coulée	min max	99,00	-	-	-	99,00	-	-	-	-	-	-	-	-	-	-
	C %	Si %	Mn %	Cu %	Ni %	Co %	Ti %	S %	Fe %	Mg %						
262137	0,006	0,16	0,07	0,008	99,28	0,02	0,035	0,001	0,27	0,02						
Colata /Heat Schmelze/Coulée	min max	99,00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ni+Co %															
262137	99,30															

Reduction ratio = 121,4 : 1  
 Annealing temperature 900°C for 2h/air.

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

Vicenza, 24/09/19 VCQ008 - MEST463912	Direzione Qualità Qualitätsmanagement/Quality Management/Gestion Qualité <b>R.BERTELLI</b>	Direzione Prodotto Produktmanagement/Product Management/Direction Produit <b>P.MESSORI</b>	Pagina 1 di 2
--	--	--	------------------