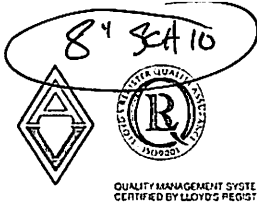


Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2005), 3.1

CO40815
10/2

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Cient
VALBRUNA CANADA LTD
8724 HOLLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CA

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

Aviso di Spedizione: D-VII1026314
Lieferanzeige/Packing list: B.L.

Ordine nr: 108003329 Stock - Canada
Bestell/Your order/Commande

Certificato nr: MEST090332/2011/
Prüfung/Test/Essai

Conferma ordine nr: E111007173
Werkz/Our Order/Ret. nr.

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



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



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

Tipo di Elaborazione: E+AOD
Ersherstellung/Art/Making process/Mode d'elaboration

255189

Specifiche:
Anforderungen / Requirements / Exigences

VAL CANADA 2 316/316L A
ASME SA182 2010 S31600/03 (0)
ASME SA479 2010 S31600/03 (3)
ASTM A262 2010 PRACTICE E
ASTM A320 2011 B8M
NACE MR0175 2003 S31600/03 (5)

AMS 5648 K S31600
ASME SA193 2010 B8M (1)
ASTM A182 2010A S31600/03 (4)
ASTM A276 2010 S31600/03
ASTM A479 2011 S31600/03
QQ-S-763 F 316/316L

AMS 5653 F S31603
ASME SA320 2010 B8M (2)
ASTM A193 2011 B8M
ASTM A314 2008 S31600/03
MIL-S-862 B/1 316/316L

- (0) SEC.II PT.A 2010 EDITION
- (1) SEC.II PT.A 2010 EDITION
- (3) SEC.II PT.A 2010 EDITION
- (5) * ISO 15156-3. Tec. corrigendum 1 2005/02/15 & 2 2005/09/01

- (0) For products machined directly from bar refer to ASME SA479.
- (2) SEC.II PT.A 2010 EDITION
- (4) For products machined directly from bar refer to ASTM A479.

Qualità: 316/316L
Werkstoff/Grade/Nuance

Marca: MVAPML MAXIVAL
Markenbezeichnung/Brand/Nuance

Punzonatura: 316/316L
Kennzeichnung/Marking/Marking

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product description Descr. du produit	Dimensioni - In Abmessungen Dimensions Dimension	Tolleranza Tolerance Allowance Tolérance	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losnr. Lot nr. Lot nr.
0030	Round	11,0000	484-09	124 / 124	255189		6.957	111105100

TEST ALLO STATO DI FORNITURA

TEST	Provetta/Probes Sonderprüfkorper Long diam Specs Breite Diam. Dims Wid. Diam. Thickness Lang diam. coat mm	° F	Snervamento Streckgrenze Yield Stress Rp 0,2% k.s.i.	Snervamento Streckgrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.i.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Erweichung Reduction of area Striction RA %		Resilienza Kerbschlagarbeit Impact Value Resilience	Durezza Härte Hardness Dureté HB
							min	max		
Valori richiesti 1 Anforderungen/Required values Valeurs énoncées			30	-	75 115	- 40	-	50	-	140 223
A	12,5	68	L	40	85	61	74			166

TEST	min	max
A Grain size for ASTM E112		5

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

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata / Heat Schmelze / Coulee	min - max 0,030	1,00	1,25 2,00	16,00 18,00	2,00 3,00	1,00	10,00 14,00	-	0,040	0,030	0,100	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %			
255189	0,020	0,31	1,71	16,72	2,08	0,52	10,14	0,106	0,030	0,027	0,085			

Produced without class I-II Ozone depleting substances.
Solution heat treated free from continuous carbide network.
Annealing temperature: 1940°F for 7 h/water.
Micro and macro etch test: OK
Intergranular corrosion test per ASTM A262 pract. E: ok.
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 matériel a été fourni conforme aux exigences

Controllo antimiscelazione: OK
Verwechslungsprüfung: spektralanalytisch durchgeführt
Antimixing testing performed: OK
Contôle antarmélange: satisfaisant

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

Vicenza, 29/08/11 VCO038 (Mod. MCE2)	Il collaudatore di stabilimento / der Werkssachverständiger / Works inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 2
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Acciaierie Valbruna S.p.A.



QUALITY MANAGEMENT SYSTEM
CERTIFIED BY LLOYD'S REGISTER

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Cliant
VALBRUNA CANADA LTD
8724 HOLLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CA

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

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

Avviso di Spedizione: D-VI11026314
Lieferanfrage Packing list B.L.

Ordine nr: 108003329 Stock - Canada
Bestell/Your order/Commande

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

CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2005) , 3.1

CON0815
2 of 2

Certificato nr: MEST090332/2011/
Prüfung/Test Essai

Conferma ordine nr: EI11007173
Werks/Our Order/Ret. nr.

Marchio di Fabbrica:
Zeichen des Lieferanten
Trade mark
Sceau de l'usine production



Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Pançon de l'essayeur



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.
Maximal 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,29/08/11
VCC008
(Mod. VCE2)

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

M. Rizzotto
M. Rizzotto

Pagina - 2 di 2