

Acciaierie Valbruna S.p.A.



35100 VICENZA (Italia) - Viale della scienza, 25 z.l.
 Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Customer: VALBRUNA CANADA LTD
 8724 HOLLGATE CRESCENT
 CDN-MILTON, ONT L5T 5Z1-CAN

Produttore: ACCIAIERIE VALBRUNA S.P.A.
 Hersteller/Manufacturer

Oggetto Prova: - Annealed Peeled
 Prüfgegenstand/Item inspected/Prüfung

Avviso di Spedizione: D-VI06006479
 Lieferanweisung/Letters of Instruction

Ordine nr: 811-1491/STOCK (2)
 Bestell-/Auftragnummer/Order no.

Tipo di Elaborazione: E+AOD
 Erzeugnisart/Manufacturing process/Mode of fabrication

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

Certificato nr: MEST336505/2006/
 Prüf- / Prüfzeugnis

Conferma ordine nr: EI05009678
 Wiederhol. Order/Ref. nr.

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

Funzione del Collaudatore:
 Stempel des Prüf- / Sachverständigen
 Inspector's stamp/Function of the Inspector



- Specifiche:
 Anforderungen / Requirements / Exigences
- VAL CANADA 2 304/304L A
 - ASME SA182 2004 S30400/03 (1)
 - ASME SA479 2004 S30400/03 (2)
 - ASTM A282 2002A PRACTICE E
 - ASTM A320 2005A B8
 - NACE MR0175 2003 S30400/03 A (3)
 - (1) SEC. II PT. A 2004 EDITION ADD. 2005
 - (2) SEC. II PT. A 2004 EDITION ADD. 2005
 - (3) SEC. II PT. A 2004 EDITION ADD. 2005
 - (5) ISO 15168-8

- AMS 5636 H S30400
- ASME SA193 2004 B8 (1)
- ASTM A182 2005A S30400/03 (4)
- ASTM A276 2005A S30400/03
- ASTM A479 2005A S30400/03
- QQ-S-783 F 304/304L

- AMS 5647 H S30400
- ASME SA320 2004 B8 (3)
- ASTM A183 2005 B8
- ASTM A314 97 S30400/03
- MIL-S-882 B/1 30-4304L

- (1) Chemical analysis only.
- (2) SEC. II PT. A 2004 EDITION ADD. 2005
- (4) Chemical analysis only.

Qualità: T-304L
 Werkstoff/Grade/Alloy

Marca: MVAISL MAXIVAL
 Markenbezeichnung/Brand/Mark

Partenza: T-304L
 Kennzeichnung/Marking/Marking

Pos. nr. Pos. nr. nr. de pozitie	Oggetto Description Descr. de pozitie	Dimensioni - in Abmessungen Dimensions Dimensiune	Tolleranza Tolerance Toleranțe	Lunghezza - in Länge Length Lungime	Coista Schmelze Heat Coutée	Pesi Spiegel Poids Poids	Peso - LB Gewicht Weight Poids	Lotto nr. Lose Lot nr. Lot nr.
0070	Round	8,5000	484-05A	198 / 213	241784		6.799	531801920

Sono state soddisfatte tutte le condizioni richieste
 Die geforderten Anforderungen sind erfüllt.
 The material has been inspected in accordance with the requirements
 Le materiale a été contrôlé conformément aux exigences

Controllo antimaccolanza: OK
 Verschleißprüfung/Spaltanalyse/Spaltanalyse
 Antirachido test: OK
 Controllo antirachido: OK

Controllo visivo e dimensionale: soddisfa le esigenze:
 Besichtigung und Abmessung/Prüfung
 Visual inspection and dimensional check/satisfactory
 Contrôle visuel et dimensionnel satisfaisant

TEST	Profilo/Profile Querschnitt/Section Profil Profil	Temp. °F	Spessore/Thickness Distanza Esp. mm Distanza Esp. mm	Suavemente Softening Temperatura Rp 0,2% k.s.l.	Suavemente Softening Temperatura Rp 0,2% k.s.l.	Resistenza Zugfestigkeit Tensile strength Rp k.s.l.	Allungamento Deformation Elongation A5 %	Strizione Reduzione Reduction of area RA %	Resistenza Korrosion Corrosion resistance	Durezza Hardness Dureza HB
Valori richiesti 1 Minimum required values Valeuri minime		min max		30	-	75 115	40	- 50	-	140 229
A	12,5	68 L	39			83	64	75		169

Grain size for ASTM E112 : 4

1) L - lunghezza/Length, O - circonferenza/Perim. T - spessore/Thickness

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analiza chimica

Colore/Color Schmelze/Color	min max 0,030	1,00	2,00	18,00 20,00	1,00	1,00	8,00 10,50	-	0,040	0,030	0,100	-	-	-	-
241784	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %	-	-	-	-
	0,014	0,60	1,95	18,25	0,39	0,48	8,27	0,100	0,027	0,027	0,100				

Produced without class I-II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1980 °F for 5,5 H/H2O.

Micro and macro etch test: OK

Intergranular corrosion test per ASTM A262 pract. E: ok.

Melted and manufactured in Italy No welding or weld repair Material free from Mercury or radio-activity contamination
 The Quality Management System is Certified acc. Pressure Equipment Directive (97/23/EC) Annex 1 s. 4.3 by TÜV and LLOYD'S

Vicenza, 30/03/06 MEST336505	Il collaudatore di stabilimento / der Werkstoffverständiger / Works Inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 1
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E14348

TOTAL P.02