

Acciaierie Valbruna S.p.A.



36100 VICENZA (Italia) - Via della scienza, 28 z.l.
Stab.: 36100 SOLZANO (Italia) - Via A. Volta, 4

Clienti / Customers: **VALBRUNA STAINLESS INC.**
2800 TAYLOR STREET WEST
USA-FORT WAYNE, IN 46801-USA

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Partecipazioni/Affiliazioni:

Capote Prova: Descaled Annealed Hotrolled
Pipes/Coils and Tubes/Sheet

Avviso di Spedizione: D-VI08023978
L'azienda non è responsabile.

Ordine nr: 22122 STOCK CAROL STR
Department of Engineering

Tipo di Elaborazione: E-AOC
Estruso/Impermeabile/Profondamente lavorato

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

Certificato nr: MEST677659/2008/
PUBBLICAZIONE

Conferma ordine nr: E109000509
Vedi Cur. Ordine nr.:

Marchio di Fabbrica:
Tutti i dati
Data di prova: 2008/10/26

Funzione del Collaudatore:
Responsabile/Verificatore/Inspector
Inspektion/Prüfung des Materials



Specifiche:

AMS 5648 K S31600 A

AMS 5648 K S31600 A

ASME SA276 2007 S31600/03 A 2

ASTM A182 2008A S31600/03 A 2

ASTM A276 2008 S31600/03 A

ASTM A379 2008A

MIL-S-882 B/1 S18/316L

(1) SEC.II P.T.A 2007 EDITION

(2) SEC.II P.T.A 2007 EDITION

(3) SEC.II P.T.A 2007 EDITION

(4) Chemical analysis only and mechanical properties.

(5) ISO 16158-5

AMS 5648 K S31600 A
ASME SA182 2007 S31600/03 A 2
ASME SA320 2007 B8M CLASS1 2
ASTM A182 2008A B8M CLASS1
ASTM A276 97 S31600/03
ASTM A379 2001 S31600/03
NACE MR0175 2003 S31600/03 7

Chemical analysis only and mechanical properties,
SEC.II P.T.A 2007 EDITION
SEC.II P.T.A 2007 EDITION
Chemical analysis only.

AMS 5655 F S31608 A
ASME SA198 2007 B8M CLASS1 (7)
ASME SA479 2007 S31600/03 A (4)
ASTM A262 2002A PRACTICE E
ASTM A320 2008 B8M CLASS1
ASTM A479 2008A S31600/03 A

Qualità: T-316L
Werkstoffbezeichnung:

Marchio: APMI

Punzonatura: S18/316L

Pos. nr. Pos. nr. Line nr. No. of pipes	Operato Operational description Design, or process	Dimensioni - In Dimensions Dimension	Tolleranze Tolerances Tolerance	Longhezza - m Length Length	Colata Casting Time Casting	Pezzi Number Pieces Pieces	Peso - kg Weight Weight Weight	Lotto nr. Lot no. Lot no.
0110	Flat	2,5000 x 1,5000	484-06E	12/13	247733		2.801	810801120

Sono state soddisfatte tutte le condizioni richieste
di pratica. Annullamento della prova. The sample has been satisfied in accordance with the requirements
of the order. The sample has been satisfied in accordance with the requirements
of the order. The sample has been satisfied in accordance with the requirements
of the order.

Controllo chimico: OK
Chemical analysis: OK
Chemical analysis: OK
Chemical analysis: OK

Controllo visivo e dimensionale: soddisfa la categoria:
Visual inspection and dimensioning: meets the category:
Visual inspection and dimensioning: meets the category:
Visual inspection and dimensioning: meets the category:

TEST	Prova di Tensile Tensile Tensile	Temperatura Temperature Temperature	Spessore Thickness Thickness	Resistenza Tensile strength Tensile strength	Resistenza Yield strength Yield strength	Allungamento Elongation Elongation	Resistenza Impact Impact	Durezza Hardness Hardness
Valori richiesti Required values Required values	min MAX		30	75 115		40	50	140 223
A	12,5	68	L	46		80	69	178

Grain size for ASTM E112

5

Analisi chimica

Chemical Analysis/Elementary Analysis by Spectroscopy

Colata/Heat Delivery/Heat	min MAX(0,050)	1,00	1,25 2,00	16,50 18,00	2,00 3,00	1,00	18,00 14,00	0,010	0,080 0,050	0,100			
247733	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %		
	0,023	0,44	1,40	17,06	2,05	0,51	10,18	0,100	0,027	0,028	0,083		

Produced without class I-II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1940°F for 1 h/water.

Micro and macro etch test: OK

Intergranular corrosion test per ASTM A262 part. E: ok

Material is DFARS Compliant

Melting and manufactured in Italy No welding or weld repair Material free from Mercury or radioactivity contamination
The Quality Management System is Certified acc. Pressure Equipment Directive (2001/28/EC) Annex 1, 2, 3, 4, 5 by TÜV and L. G. 2008

Vicenza, 03/10/08
vccscc
(date stamp)

Il collaudatore di stabilimento / der Werkstoffprüfer / Works Inspector / L'espert d'usine
M. Pizzanelli

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J. RUBIN & COMPANY
INV. N° 880922-0
SOLO TO WORKING
PO 09-01183 DN 10/26/09