McMASTER-CARR®

Certificate

330-995-5500
330-995-9600 (fax)
cle.sales@mcmaster.com

Purchase Order	Order Date	Placed By	McMaster-Carr Number	Number of Certificates
P1498225	12/12/2023	Jane Beattey	5200492-01	1

Line		Product	Ordered	Status	Certificate
1	5252T82	Tight-Tolerance 4140 Alloy Steel Rod, 1-3/8" Diameter, 1 Foot Long	1 each	1 each delivers December 14	211–8740

Your order is subject only to our terms and conditions, available at www.mcmaster.com or from our Sales Department.

Rodacciai

23842 Bosisio Parini (LC) – Via Giuseppe Roda 1 – Italia
Tel. +39 031878111 – Fax +39 031878312
www.rodacciai.com – info@rodacciai.com

Azienda con sistema di gestione certificato da IGQ secondo UNI EN ISO 9001:2015

The Company's Quality Management System is certified by IGQ according to UNI EN ISO 9001:2015

CERTIFICATO DI CONTROLLO Inspection Certif N. 028864 Date 22/02/2022

Secondo According to . . . . . EN 10204:2004 3.1

DESTINATARIO - Cargo-Receiver

RODA SPECIALTY STEEL, INC
SOUTHVIEW IND. PARK UNIT C
178 RIDGE ROAD
08810 DAYTON - NJ

CLIENTE - Customer

RODA SPECIALTY STEEL, INC.

230 LEXINGTON DRIVE
60089 BUFFALO GROVE IL.

ORDINE - Order
N. 451676 Date 30/03/2021

D.d.T. - Delivery note
N. 02154/13 Date 22/02/2022

Weight Lb 19764 **Odp. Nr.** 2021/A/33162
Tolerance +0,0000 -0,0039 in **Bars Length** 12 - 13 ft.

QUALITA' - Grade
STANDARD EN ISO 683-2:2018 42CrMoS4 1.7227

Mark RODACCIAI 1.7227
PROFILO - Shape . . . . . ROUND
DIMENSIONE - Size . . . . . 1.400"
TRATTAMENTO - Heat Treatment . . . . . FP-ANNEALED
ESECUZIONE - Form of delivery . . . . . PEELED

COLATA - Heat 283540
Melted in: ACCIAIERIE VENETE SPA Italy I

ANALISI CHIMICA DI COLATA - Cast analysis % by mass

C	Mn	Si	S	P	Cr	Ni	Mo	Al	Cu
0,423	0,869	0,208	0,0390	0,012	1,024	0,156	0,159	0,015	0,190

CARATTERISTICHE MECCANICHE ALLO STATO DI FORNITURA
Mechanical properties of the delivered material

		Tested
Tensile Strength	Rm PSI	89676,0
Yield Strength	Rp(0,2) PSI	49413,0
Elongation	A 4 (%)	18,7
Hardness	HBW	183,0
Reduction of area	Z (%)	54,1

TEMPRABILITA' JOMINY - Jominy Hardenability

Distance mm	1,5	3	5	7	9	11	13	15
Hardness HRC	59,0	57,1	56,3	55,3	53,5	51,9	51,8	50,7

Distance mm	20	25	30	35	40	45	50
Hardness HRC	47,2	44,8	42,9	40,8	39,3		

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Segue certificato di controllo N. 028864 Date 22/02/2022
Inspection Certificate's continuance

DIMENSIONE GRANO AUSTENITICO - Austenitic grain size

Value . . . . . 7-8 ISO 643:19-ASTM E112

TENORE INCLUSIONALE - Inclusion Content

According to DIN 50602 (Stahl Eisen Pruefbratt 1570 71)
Method K: total value (oxides) . . . . . K 4 = 4

NOTE - Notes

This product was manufactured in Italy
Compliant to DFARS clause 252.225-7009 and -7012 .
Conforming to grade 4140
Material in compliance with QL-2 - JDM A0 standard
Inclusions according to ASTM E45 13 Method A and JDM A0 QL 2
A:T=1,A:H=2; - B:T=1,B:H=2; - C:T=1,C:H=2; - D:T=0,D:H=1
According to: ASTM A29 ASTM A322
Macrocleanliness ASTM E381 Plate 1 S=1 R=1 C=1
Reduction ratio =18,7 To 1,0 - Minimum 5:1
100% crack tested : OK
According to ASTM A108-13 and 4140/4142 Codition "A"

We certify hereby, that the above mentioned products are consistent with the order prescriptions.
This certificate was generated by data system acc. to EN 10204, it is not necessary to be signed for validity.

Materiale conforme alle seguenti direttive/regolamenti europee:
. 76/769/CEE e successive modifiche
. 2000/53/CE, 2002/525/CE, 2005/673, 2008/33/CE, 2008/112/CE e 2017/2096 relative ai veicoli fuori uso (ELV)
. 2006/117 Contaminazione radioattiva
. Reach EC 1907/2006-1272/2008-UE 2018/1513 Allegato XVII 10/10/2018 2017/999 Allegato XIV del 13/06/2017
e lista SVHC-ECHA aggiornata al 25/06/2020
- Canadian list 168 aggiornata al 25/06/2020
. Direttiva RoHs3: 2002/95/CE - 2011/65/UE - emendamento UE 2015/863 e successive modifiche
Materiale conforme a Dodd-Frank Act relativo a minerali provenienti dalle zone dei conflitti.

Material conforming to the following European directives/regulation:
. 76/769/EEC and following amendments
. 2000/53/EC, 2002/525/EC, 2005/673, 2008/33/EC, 2008/112/EC and 2017/2096 on end-of-life vehicles (ELV)
. 2006/117 Radioactive Contamination
. Reach regulation EC 1907/2006 - 1272/2008 - EU 2018/1513 enclosed XVII 10/10/2018 - EU 999/2017 enclosed XIV 13/06/2017 and list SVHC-ECHA updated on 25/06/2020
- Canadian list 168 updated on 25/06/2020
. RoHs3 Directive: 2002/95/CE - 2011/65/EU - amendment EU 2015/863 and following amendments
Material conforming to Dodd-Frank Act related to conflict minerals.

 RODACCIAI: The Work Inspector
Alessia Porta