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
P1424090	5/7/2021	Jane Beattey	6587721-01	1

Line		Product	Ordered	Status	Certificate
1	8952K13	Ultra-Machinable 360 Brass Hex Bar, 3/4" Wide, 3 Feet Long	3 each	3 each deliver May 10	146–0401

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

CR.AllFlds.txt

MUELLER BRASS CO.

LOCATIONS:

2199 LAPEER AVENUE
PORT HURON, MICHIGAN 48060

302 ASHFIELD STREET
BELDING, MICHIGAN 48809

Control No: 1171270

CERTIFIED TEST REPORT

Sold: 00062198
To: UNITED STATES BRASS & COPPER
1401 BROOK DRIVE
DOWNER'S GROVE, IL 60515

Ship: 00062198
To: UNITED STATES BRASS & COPPER
1401 BROOK DRIVE
DOWNER'S GROVE, IL 60515

Cust PO: 20PPO01882
Cust Part: HXB0017 145
Type/Size: ROD HEX 0.7500
Cust Spec: ASTM B16/B16M-19
HALF HARD, ROD

MBCo SO: 537901 Ln 2 Cert Lvl: 2
Part Nbr: 3609758 FC
Qty Shpd: 676 UM: Lbs
BOL: 50833860 Shpd: 12/20/20
Alloy: C36000
Temper: H020 1/2 H

MECHANICAL PROPERTIES

	YIELD STRENGTH, MIN., KSI	TENSILE STRENGTH, MIN., KSI	ELONGATION MIN., %	ROCKWELL HARDNESS, RB	
				Rnd	Hex or Oct
To .500" incl.	25	57	7	60 - 80*	55 - 80
.501 to 1.000" incl.	25	55*	10	55 - 75	45 - 80
1.001 to 2.000" incl.	20	50	15	45 - 70	40 - 65
2.001 to 3.000" incl.	15	45	20	40 - 65	35 - 60
3.001 to 4.000" incl.	15	45	20	25 min.	25 min.
4.001" and over	15	40	20		

* If product is specified for thread-rolling applications the minimum for Tensile Strength shall be 52ksi and the Rockwell Hardness shall be 55-75.

Chemical Analysis (%)

	Cu	Pb	Fe	Zn
ASTM B16/B16M-19	60.0-63.0	2.5-3.0	0.35 Max	REM
LOT Nbr: 1798834	61.7	2.6	0.17	REM.

TOTAL OTHER ELEMENT MAX: .50

We hereby certify to the chemical and mechanical properties reported herewith and to the fact that they were determined in conformance with the specification noted above or any exceptions to this specification we have granted. We also hereby certify that the material furnished on this order is free from mercury contamination and that no mercury bearing equipment was used in the manufacture of these items.

Melted and Manufactured in USA

Conflict Minerals Compliant

Produced in Compliance with:
EN 10204 3.1
RoHS 3 (EU Directive 2015/863)
The 2000/53/EC

By: James Tremp
Metallurgist

12/20/20