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
P1482010	5/24/2023	Jane Beattey	3471019-01	1

Line		Product	Ordered	Status	Certificate
1	6512K221	Low-Carbon Steel Hex Bar, 5/8" Wide, 3 Feet Long	1 each	1 each delivers May 25	196–2090

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

600 DIENS DRIVE WHEELING, IL 60090
(847) 459-5100

MATERIAL ANALYSIS CERTIFICATION

SOLD TO: CENTRAL STEEL & WIRE CO. (CHI)
P.O. BOX 5100

CHICAGO IL 60680

CUST P.O. #:4501118508
TSW ORDER #: 4346440
TSW INVOICE #: 00000000

FEB 16 2022

THE FOLLOWING TEST CONFORMS TO THE REQUIREMENTS OF THE GRADE SPECIFICATION ORDERED AND LISTED BELOW:

MATERIAL DESCRIPTION:

HEXAGON 1000 Series Cold Drawn Bars to ASTM A108-18 & SAE J403
1018 PER CSW F-6 DATED 05-01-20 "DRC CONFLICT FREE"
COUNTRY OF ORIGIN,US:P/C'B';TSW FEIN#36-2065420
MELT SOURCE NOT ACCREDITED
IAC NUMBER 160002659

HEAT	SIZE	GRADE	LENGTH	WEIGHT	TENSILE	YIELD
212173	.6250	1018	144	5571		

HEAT:	CHEMICAL ANALYSIS:					
212173	C 0.160	Mn 0.720	P 0.011	S 0.030	Si 0.180	
	Ni 0.070	Cr 0.111	Mo 0.027	Al 0.002	B 0.0003	
	Sn 0.008	V 0.005	N 0.0079	Nb 0.002	Ti 0.0005	
	Cu 0.180	Pb .000/.000				

	MELT	PROD.	REDUC.		GRAIN	DI-HARDEN *
212173	ALTON	STRAND	101:1	018	0COARSE	
.4886						

WE CERTIFY THAT THE INFORMATION SHOWN ABOVE IS TRUE AND EXACT AS CONTAINED IN THE PERMANENT ELECTRONIC RECORDS OF TAUBENSEE STEEL & WIRE CO.

Authorized Electronic Signature
Chuck Hrycko

Quality Technician
DATE 07/21/21

* CALCULATIONS BASED DIRECTLY ON ASTM A255

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