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
P1520116	9/4/2024	Jon Wood	1910863-02	1

Line		Product	Ordered	Status	Certificate
1	8954K185	Ultra-Machinable 360 Brass Bar, 1/4" Thick, 1-1/4" Wide, 2 Feet Long	1 each	1 each delivers September 5	228–5416

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

nacional de cobre

CERTIFICADO DE CALIDAD
MILL TEST REPORT

FECHA / DATE:
17.11.2022

PLANTA: MX19 - Nacobre Celaya

CLIENTE/CUSTOMER:	109875 UNITED STATES BRASS & COPPER	PRODUCTO/PRODUCT:	22B1036010434
PEDIDO CLIENTE/P.O.:	20PPO04811-1	DESCRIPCION/DESCRIPTION:	SOLERA LAT 0.25X1.25X145
PEDIDO/ORDER:	147035565	ALEACION/ALLOY:	0360
NORMA CTE./CUST SPEC :		TEMPLE/TEMPER:	1/2 DURO / 1/2 HARD
PARTE CTE./CUST. PART.:		PESO NETO/NET WEIGHT:	1,068.000 KG / 2,354.537 LB
NORMA/STANDAR	ASTM B16-19	FORMA/FORM:	ARISTA VIVA / SQUARE CORNERS
		PRESENTACION/ PRESENTATION:	TRAMO RECTO / STRAIGHT LENGTH

COMPOSICIÓN QUIMICA REQUERIDA
CHEMICAL COMPOSITION REQUIRED

ELEMENTO	Cu	Pb	Fe	Zn
Max %	63.000	3.000	0.350	REM
Min %	60.000	2.500	------	REM

No. DE MUESTRA
HEAT NUMBER
Colada

COMPOSICIÓN QUIMICA DETERMINADA
CHEMICAL COMPOSITION DETERMINED

03130	Max	61.4200	2.8030	0.3330	REM
03130	Min	60.5100	2.5100	0.0600	REM

PRUEBAS FISICAS / MECANICAS . PHYSICAL / MECHANICAL PROPERTIES

PRUEBA / TEST	U/M	DETERMINADO / DETERMINED Mínima / Minimum	DETERMINADO / DETERMINED Máxima / Maximum	REQUERIDO / REQUIRED Mínima / Minimum	REQUERIDO / REQUIRED Máxima / Maximum
DIMENSIONS: THICKNESS	IN	0.2500	0.2500	0.2460	0.2540
DIMENSIONS: WIDTH	IN	1.2525	1.2525	1.2450	1.2550
LENGTH	IN	145.5000	145.5000	144.0000	146.0000
HARDNESS	HRB	66.0000	66.0000	35.0000	70.0000

THIS MATERIAL WAS PRODUCED IN COMPLIANCE WITH DIRECTIVE RoHS ANNEX AP.1 ART.4"

ORDEN / ORDER: 80461038

CAJA / BOX: 80167038

Entrega / Delivery: 83131179

OBSERVACIONES

REVISO: CALIDAD
REVIEWED QUALITY

HECHO EN MEXICO
MADE IN MEXICO

ROBERTO MONTOYA RODRIGUEZ

NACIONAL DE COBRE S.A. DE C.V. CERTIFICA QUE EL MATERIAL EMBARCADO BAJO ESTA ORDEN HA SIDO INSPECCIONADO, PROBADO Y ENCONTRADO CONFORME A LA ESPECIFICACION APLICABLE A NUESTROS ARCHIVOS SE ENCUENTRAN REPORTES DE PRUEBA SUJETOS A EXAMEN
SE PROHIBE LA REPRODUCCION TOTAL O PARCIAL DE ESTE CERTIFICADO SIN LA AUTORIZACION DE LA GERENCIA DE CALIDAD.
NACIONAL DE COBRE, HEREBY CERTIFIES THAT MATERIAL SHIPPED UNDER THIS ORDER WAS BEEN INSPECTED, AND FOUND IN AGREEMENT WITH APPLICABLE SPECIFICATION, TEST REPORTS ARE ON FILE SUBJECT TO EXAMINATION
THE COUNTRY OF ORIGIN OF THE CAST MATERIAL FOR THIS ORDER WAS MEXICO