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
P1477777	4/4/2023	Jane Beattey	8839842-01	1

Line		Product	Ordered	Status	Certificate
1	8951K04	353 Brass Bar, 3/4" Wide, 1 Foot Long, 1/16" Thick	5 each	5 each deliver April 5	129–1191

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

nacional de cobre, s.a. de c.v.

CERTIFICADO DE CALIDAD
MILL TEST REPORT

FECHA / DATE:
20.03.2019

PLANTA: MX21 - Nacobre Vallejo

CLIENTE/CUSTOMER:	109875 UNITED STATES BRASS & COPPER	PRODUCTO/PRODUCT:	41F1035311542
PEDIDO CLIENTE/P.O.:	66200	DESCRIPCION/DESCRIPTION:	LD BR STRIP(353) .0625" X 12.00"XCL(H02
PEDIDO/ORDER:	147028317	ALEACION/ALLOY:	0353
NORMA CTE./CUST SPEC.:		TEMPLE/TEMPER:	H02 1/2 DURO POR REDUCCION / H02 1/2 HARD
PARTE CTE./CUST. PART:		PESO NETO/NET WEIGHT:	2600 KG / 5732 LB
NORMA/STANDAR	ASTM B - 121		

COMPOSICIÓN QUIMICA REQUERIDA
CHEMICAL COMPOSITION REQUIRED

ELEMENTO	Cu	Fe	Pb	Zn
Max %	63.000	0.100	2.500	REM
Min %	60.000	------	1.500	REM

No. DE MUESTRA / HEAT NUMBER / Colada — **COMPOSICIÓN QUIMICA DETERMINADA / CHEMICAL COMPOSITION DETERMINED**

32698	62.3250	0.0180	2.0420	REM
32706	61.9010	0.0210	2.0310	REM

PRUEBAS FISICAS / MECANICAS . PHYSICAL / MECHANICAL PROPERTIES

	PRUEBA / TEST	U/M	DETERMINADO / DETERMINED	REQUERIDO / REQUIRED Minima / Minimum	Maxima / Maximum
32698	TENSILE STRENGTH	KSI	56.600	55.000	65.000
32698	YIELD STRENGTH		47.400	-----	-----
32698	ELONGATION	%/2	25.000	-----	-----
32706	TENSILE STRENGTH	KSI	57.400	55.000	65.000
32706	YIELD STRENGTH		48.200	-----	-----
32706	ELONGATION	%/2	23.000	-----	-----

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

ORDEN / ORDER: 80278300

Entrega / Delivery: 82684288

OBSERVACIONES

CARLOS RODRIGUEZ GARCIA
SUPERINTENDENTE TÉCNICO

REVISO: CALIDAD
REVIEWED:QUALITY

HECHO EN MEXICO
MADE IN MEXICO

CIONAL 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. ENCUENTRAN REPORTES DE PRUEBA SUJETOS A EXAMEN.
PROHIBE LA REPRODUCCION TOTAL O PARCIAL DE ESTE CERTIFICADO SIN LA AUTORIZACION DE LA GERENCIA DE CALIDAD.
CIONAL DE COBRE, HERE BY CERTIFIES THAT MATERIAL SHIPPED UNDER THIS ORDER WAS BEEN INSPECTED, AND FOUND IN AGREEMENT WITH APPLICABLE SPECIFICATION, TEST REPORTS ARE ON FILE SUBJECT EXAMINATION,
E COUNTRY OF ORIGIN OF THE CAST MATERIAL FOR THIS ORDER WAS MEXICO