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
P1495062	11/1/2023	Jane Beattey	3270575-01	1

Line		Product	Ordered	Status	Certificate
1	8294K23	Tight-Tolerance 932 Bearing Bronze Bar, 3/8" Thick, 2" Wide, 2 Feet Long	4 each	4 each deliver November 2	224–4406

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

TO: McMaster Carr - OH / PO# TA-81225430 / SO# 745022 / PL# 74540

WISCO

MATERIAL TEST REPORT

3.1 EN 10204

DELIVERY NOTE

43971101

CLIENT:	MARANATHA NOW, Inc (ATLAS BRONZE)	Order Nº:	48082

Line	Qty.	Description of product supplied	Cast No.
7	1	Bronze Plate C93200 12.25"x4"xL=144"	2219209

MATERIAL

Wisco designation	EN1982 designation	According other specification: ☐ n/a ☐ Client specification ☒ International standard	Casting process
n/a	n/a	ASTM B505/B505M _ C93200	Continuous (GC)

Requested results: ☒ C.A. ☒ Hardness ☒ Tensile Test ☐ Others:

CHEMICAL ANALYSIS (%)

Cast No.	Zn	Sn	Si	Sb	S	Pb	P	Ni	Mn	Fe
2219209	3,68	7,26	0,0008	0,05	0,035	7,11	0,0779	0,59	0,0005	0,0608

Cast No.	Cr	Co	Bi	As	Al	Ag	Cu			
2219209	0,0003	0,0029	0,0023	0,0147	0,0010	0,0194	81,09			

MECHANICAL PROPERTIES

Cast No.	Hardness	Tensile Test							
	HBW 10-1000	$YS_{0.5}$		TS		E 5D (%)			
		ksi*	MPa	ksi*	MPa				
2219209	95	22	154	45	308	27,5			

Remarks:

*Values in ksi calculated by mathematical conversion. Real values obtained from test are in MPa

Quality system ISO 9001

LRQA certificate Nº: SGI 1957361

Contact information

Wisco Española, S.A.
C/ Mayor s/n
31890 Betelu
Navarra (Spain)
Tel: +34 948513050
Fax: +34 948513186

For more information about our products and services please visit us
www.wisco.es
wisco@grupowisco.com

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[1] *This revision supersedes any prior revision of this certificate for the delivery note lines written above.*