

+49 (0) 2852 96064 00 +49 (0) 2852 96064 24 Tel: Fax: www.labmix24.com info@labmix24.com Web: E-Mail:

## Lead in bronze certified for the Pb isotope amount ratios

Art. ID ERM-EB400

Unit 1 g

Deliverydetails No Dangerous Good /not restricted

## **Description**

The isotopic reference material ERM-EB400 is a chipped bronze material with a Pb mass fraction of 45 mg/kg. Approximately 1 g of bronze swarfs is filled in crimp vials, which are sealed in PE bags. This material is designed for verification and validation of all procedures (e.g. TIMS, ICPMS) being used for the determination of Pb isotope amount ratios.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified quantity	Isotope amount ratio n(		18,072	mol/mol		
	206Pb)/n(204Pb)					
Certified quantity	Isotope amount ratio n(		15,578	mol/mol		
	207Pb)/n(204Pb)					
Certified quantity	Isotope amount ratio n(		38,075	mol/mol		
	208Pb)/n(204Pb)					
Certified quantity	Isotope amount ratio n(		2,1068	mol/mol		
	208Pb)/n(206Pb)					
Certified quantity	Isotope amount fraction		0,0137504	mol/mol		
	n(204Pb)/n(Pb)					
Certified quantity	Isotope amount fraction		0,2485	mol/mol		
	n(206Pb)/n(Pb)					
Certified quantity	Isotope amount fraction		0,2142	mol/mol		
	n(207Pb)/n(Pb)					
Certified quantity	Isotope amount fraction		0,52355	mol/mol		
	n(208Pb)/n(Pb)					
Certified quantity	Molar mass of Pb in bro		207,20968	g/mol		
	nze M(Pb)					
Additional Material Inf	Copper (Cu)	[7440-50-8]	0,9404	kg/kg		
ormation, mass fraction						
Additional Material Inf	Tin (Sn)	[7440-31-5]	0,0592	kg/kg		
ormation, mass fraction						
Additional Material Inf	Bismuth (Bi)	[7440-69-9]	42,2	mg/kg		
ormation, mass fraction						
Additional Material Inf	Lead (Pb)	[7439-92-1]	44,9	mg/kg		
ormation, mass fraction						