

Trace Elements in Basalt Glass

Art. ID	NIST-606
Unit	glass mounted in epoxy
Deliverydetails	No Dangerous Good /not restricted

Description

This Standard Reference Material (SRM) is intended to facilitate development of chemical methods of analysis for trace elements in a natural ferro-magnesian silicate glass intended for use with measurement techniques such as laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS) and microbeam X-ray fluorescence (μ XRF). This SRM can also be used for quality assurance when assigning values to in-house control materials. A unit of NIST-606 consists of a single piece of basalt glass mounted in epoxy. The epoxy mounted material has a cylindrical shape approximately 14 mm tall and 12.5 mm in diameter. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Barium (Ba)	[7440-39-3]	174	mg/kg	NIST ICP-M S / USGS I CP-MS / US GS ICP-OES	
	Cobalt (Co)	[7440-48-4]	48,3	mg/kg	NIST ICP-M S / USGS I CP-MS / US GS ICP-OES	
	Chromium (Cr)	[7440-47-3]	315	mg/kg	NIST ICP-M S / USGS I CP-MS / US GS ICP-OES	
	Copper (Cu)	[7440-50-8]	86,5	mg/kg	NIST ICP-M S / USGS I CP-MS / US GS ICP-OES	
	Lanthanum (La)	[7439-91-0]	5,45	mg/kg	NIST ICP-M S / USGS I CP-MS / US GS ICP-OES	
	Lead (Pb)	[7439-92-1]	4,26	mg/kg	NIST ICP-M S / USGS I CP-MS	
	Scandium (Sc)	[7440-20-2]	33,6	mg/kg	NIST ICP-M S / USGS I	

					CP-MS / US GS ICP-OES
Strontium (Sr)	[7440-24-6]	169	mg/kg		NIST ICP-M S / USGS I CP-MS / US GS ICP-OES
Vanadium (V)	[7440-62-2]	266	mg/kg		NIST ICP-M S / USGS I CP-MS / US GS ICP-OES
Yttrium (Y)	[7440-65-5]	17,1	mg/kg		NIST ICP-M S / USGS I CP-MS / US GS ICP-OES
Zinc (Zn)	[7440-66-6]	79,2	mg/kg		NIST ICP-M S / USGS I CP-MS / US GS ICP-OES