

112.3 - Glasses (powder and solid forms)

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

Description >>	80a Soda-Lime Glass (Beads)	81a Glass Sand	89 Lead-Barium Glass	92 Soda-Lime Glass, Low Boron (Powder)	93a Borosilicate Glass	165a Glass Sand	606 Trace Elements in Basalt Glass	620 Soda Lime, Flat	1411 Soft Borosilicate Glass	1412a Multicomponent Glass (disk form)	1413 High Alumina Sand	1830 Soda-Lime Float Glass (Nominal Mass Fraction 0.1 % Al ₂ O ₃)	1831 Soda-Lime Sheet Glass (Nominal Mass Fraction 1.2 % Al ₂ O ₃)	2696 Silica Fume (powder form)
Unit Size >>	45 g	75 g	45 g	45 g	1 wafer	75 g	glass mounted in epoxy	3 platelets	10 platelets	disk	75 g	3 platelets	3 platelets	70 g
(Concentrations are in mass fractions, in %, unless noted by an asterisk for mg/kg)														
Aluminum	0.921			0.706						4.63				
Aluminum oxide (Al ₂ O ₃)		0.66	0.155		2.28	0.059		1.80	5.68		9.90	0.12	1.21	0.2080
Antimony	0.0063									0.0138				
Arsenic	0.040			0.031						0.0084				
Arsenic pentoxide (As ₂ O ₅)			0.363											
Arsenic trioxide (As ₂ O ₃)			0.0440					0.056						
Barium	0.11			0.12			174			0.102				
Barium oxide			1.423						5.00		0.12			
Boron										1.23				
Boron oxide (B ₂ O ₃)				0.70	12.56				10.94					
Cadmium										0.0072				
Cadmium oxide														
Calcium	5.80			5.81						2.85				
Calcium oxide			0.197		0.01			7.11	2.18		0.74	8.56	8.20	0.426
Cerium														
Chlorine			0.0517		0.060									
Chromium														
Chromium oxide (Cr ₂ O ₃)		46*				(1*)								
Cobalt								48.3						
Copper								86.5						
Ferric Oxide (Fe ₂ O ₃)		0.082	0.0487		0.028	0.012		0.043	0.050		0.24	0.121	0.087	0.055
Gallium										(<i><0.001</i>)				
Iron	0.108			0.0466						0.00881				
Iron oxide					0.016							0.032	0.025	
Lanthanum							5.45							
Lead	0.0095			0.0030			4.26			0.0176				
Lead oxide			17.436											
Lithium										1.86				
Lithium oxide (Li ₂ O)														
Loss on Ignition			0.321											2.11
Magnesium	1.66			0.041						2.33				
Magnesium oxide			0.0332		0.005			3.69	0.33		0.06	3.90	3.51	0.235
Manganese	0.005			0.002										
Manganese oxide			0.081											
Manganese trioxide (Mn ₂ O ₃)														0.032
Phosphorus	0.006			0.002						(<i><0.005</i>)				0.0863
Phosphorus pentoxide (P ₂ O ₅)			0.233											
Potassium	0.552			0.478						3.27				
Potassium oxide (K ₂ O)			8.323		0.014			0.41	2.97		3.94	0.04	0.33	0.652
Scandium							33.6							
Selenium										(<i>0.004</i>)				
Silicon	33.6			35.1						27.68				
Silicon dioxide (SiO ₂)		65.33			80.8			72.08	58.04		82.77	73.07	73.08	95.61
Silver										0.0080				
Sodium	9.95			9.6						2.93				
Sodium oxide (Na ₂ O)			5.73		3.98			14.39	10.14		1.75	13.75	13.32	0.129
Strontium	0.009			0.005			169			3.42				
Strontium oxide									0.09					
Sulfur	0.087			0.0164						(<i>0.002</i>)				
Sulfur trioxide (SO ₃)			0.034					0.28				0.26	0.25	
Tin	0.0018													
Titanium	0.021			0.008										
Titanium oxide (TiO ₂)		0.12	0.0136		0.014	0.011		0.018	0.02		0.011		0.019	
Vanadium							266							
Yttrium							17.1							
Zinc	0.019			0.22			79.2			3.10				
Zinc oxide									3.85					0.051
Zirconium	0.010			0.008										
Zirconium oxide (ZrO ₂)		0.034	0.0045		0.042	0.006								

- Certified values are normal font
 - Non-certified or reference values are italicized
 - Non-certified values in parentheses are for information only