

Standard sample	NIST 694		DNC-1		GBW 07113		TDB-1		W-2a		DTS-2b		SY-4		BIR-1a	
	measured	certified	measured	certified	measured	certified	measured	certified	measured	certified	measured	certified	measured	certified	measured	certified
SiO ₂	11.67	11.2	47.96	47.15	69.33	72.8			52.63	52.4			50.13	49.9	47.82	47.96
Al ₂ O ₃	1.85	1.8	18.45	18.34	12.46	13			15.49	15.4			21.03	20.69	15.83	15.5
Fe ₂ O ₃	0.72	0.79	10.01	9.97	3.18	3.21			10.98	10.7			6.27	6.21	11.45	11.3
MnO	0.01	0.0116	0.15	0.15	0.14	0.14			0.17	0.163			0.11	0.108	0.17	0.175
MgO	0.34	0.33	10.05	10.13	0.15	0.16			6.32	6.37			0.52	0.54	9.63	9.7
CaO	41.92	43.6	11.68	11.49	0.62	0.59			11.21	10.9			8.23	8.05	13.76	13.3
Na ₂ O	0.89	0.86	1.91	1.89	2.4	2.57			2.27	2.14			7.01	7.1	1.82	1.82
K ₂ O	0.54	0.51	0.23	0.234	5.41	5.43			0.66	0.626			1.72	1.66	0.02	0.03
TiO ₂	0.12	0.11	0.48	0.48	0.27	0.3			1.12	1.06			0.29	0.287	0.98	0.96
(wt.%) P ₂ O ₅	30.32	30.2	0.05	0.07	0.02	0.05			0.12	0.14			0.12	0.131	0.01	0.021
Sc			31	31	5	5			36	36			1	1.1	44	44
Be					4	4			<1	1.3			3	2.6	<1	0.58
V	1637	1740	153	148	<5	5			273	262			8	8	332	310
Cr							250	251	90	92	>10000	15500				
Co									44	43	131	120	2	2.8		
Ni									90	92	3610	3780				
Cu									330	323						
Zn									160	155			100	93		
Ga													36	35		
Ge																
As									<5	1.2						
Rb							20	23	20	21			54	55		
Sr			142	144	39	43			198	190			1205	1191	107	110
Y							34.2	36	21.7	24			121	119		
Zr			35	38	384	403			88	94			541	517	16	18
Nb									6.9	7.9			14.1	13		
Mo																
Ag																
In																
Sn																
Sb									1	0.79						
Cs									0.8	0.99			1.5	1.5		
Ba			110	118	497	506			185	182			352	340	9	6
La							17	17	11.1	10			60.7	58		
Ce							39.7	41	24.4	23			129	122		
Pr													15.3	15		
Nd							23.9	23	13.2	13			59.3	57		
Sm									3.39	3.3			13.4	12.7		
Eu							2.02	2.1					2.09	2		
Gd													14.7	14		
Tb									0.63	0.63			2.77	2.6		
Dy									3.9	3.6			19.3	18.2		
Ho									0.79	0.76			4.45	4.3		
Er									2.27	2.5			14.7	14.2		
Tm									0.324	0.38			2.33	2.3		
Yb							3.22	3.4	2.08	2.1			15.4	14.8		
Lu									0.326	0.33			2.23	2.1		
Hf									2.4	2.6			10.8	10.6		
Ta									0.4	0.5			0.8	0.9		
W																
Tl																
Pb									9	9.3			10	10		
Bi																
Th							2.7	2.7	2.3	2.4			1	1.4		
(ppm) U									0.5	0.53			1	0.8		