

Rocks, ceramic materials and minerals

Code	Product	Unit
NIST-694	Phosphate rock, western - Constituents Certified values Al ₂ O ₃ 1.8 % K ₂ O 0.51 % SiO ₂ 11.2 % CaO 43.6 % MgO 0.33 % U 0.01414 % CdO 0.015 % MnO 0.0116 % V ₂ O ₅ 0.031 % F 3.2 % Na ₂ O 0.086 % Fe ₂ O ₃ 0.79 % P ₂ O ₅ 30.2 % Indicative values for, Cr ₂ O ₃ , ZnO, TiO ₂	90 g
NIST-193	Potassium nitrate - Nitrogen and potassium Certified values K 38.66 % N 13.85 %	90 g
New NIST-200B	Potassium dihydrogen phosphate - Phosphorous and potassium This Standard Reference Material [®] (SRM [®]) is a highly purified and homogeneous lot of crystalline potassium dihydrogen phosphate (KH ₂ PO ₄). It is intended primarily for use as a working standard in the calibration and standardization of procedures employed in the fertilizer industry for the determination of potassium and phosphorus. A unit of NIST-200B consists of one bottle containing 90 g of crystalline potassium dihydrogen phosphate. Certified values Phosphorus 22.769 % ± 0.010 % Potassium 28.735 % ± 0.018 % Indicative values for selected elements	90 g
New NIM-GBW06502	Ammonium dihydrogen phosphate - Nitrogen and phosphorous Certified values P 26.85 % N 12.08 % Indicative values for Ca, Fe, Mg	30 g
New NIM-GBW06503	Potassium sulphate - Potassium Certified values K 44.79 % Indicative values for Ca, Fe, Mg, Mn	40 g
New NIM-GBW06501	Urea - Nitrogen Certified values Biuret 1.38% N 46.30% Indicative values for B, Ca, Fe, Mn	35 g

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Code	Product	Unit
NIST-1d	Limestone, Argillaceous - Constituents Certified values Na ₂ O 0.0109 % P ₂ O ₅ 0.0413 % Mn 0.0209 % MgO 0.301 % S 0.1028 % Fe ₂ O ₃ 0.3191 % Al ₂ O ₃ 0.526 % K ₂ O 0.1358 % ZnO 0.0022 % SiO ₂ 4.080 % CaO 52.85 % SrO 0.0303 %	70 g
NIST-88b	Limestone, Dolomite - Constituents Collected near Skokie, Illinois, USA Certified values Al ₂ O ₃ 0.336 % K ₂ O 0.1030 % P ₂ O ₅ 0.0044 % CaO 29.95 % MgO 21.03 % SiO ₂ 1.13 % CO ₂ 46.37 % MnO 0.0160 % SrO 0.0076 % Fe ₂ O ₃ 0.277 % Na ₂ O 0.0290 % Indicative values for TiO ₂ , L.O.I.* * Loss On Ignition	75 g
NCS DC60107A	Limestone - Constituents Certified values Al ₂ O ₃ 0.22 % MgO 0.81 % SO ₃ 0.018 % CaO 54.03 % MnO 0.0067 % TiO ₂ 0.010 % Cl 0.0028 % Na ₂ O 0.017 % L.O.I.* 43.12 % Fe ₂ O ₃ 0.11 % P ₂ O ₅ 0.0081 % K ₂ O 0.84 % SiO ₂ 1.09 % Indicative value for CO ₂ , free SiO ₂ * Loss On Ignition	50 g

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Code	Product	Unit
NCS DC60108A	Limestone - Constituents	50 g
	Certified values	
	Al ₂ O ₃ 0.33 %	MgO 2.25 %
	CaO 51.61 %	MnO 0.0089 %
	Cl 0.0066 %	Na ₂ O 0.070 %
	Fe ₂ O ₃ 0.17 %	P ₂ O ₅ 0.017 %
	K ₂ O 0.17 %	SiO ₂ 2.09 %
	SO ₃ 0.016 %	TiO ₂ 0.015 %
		L.O.I.* 42.84 %
	Indicative value for free SiO ₂ , CO ₂	
	* Loss On Ignition	
NCS DC14014A	Limestone - Constituents	50 g
	Certified values	
	Al ₂ O ₃ 0.093 %	MgO 0.29 %
	CaO 55.34 %	MnO 0.005 %
	Fe ₂ O ₃ 0.085 %	P 0.0011 %
	K ₂ O 0.020 %	S 0.043 %
	SiO ₂ 0.22 %	L.O.I.* 43.61 %
	Indicative value for Na ₂ O	
	* Loss On Ignition	
New ECRM-B 752-1	Limestone - powder	100 g
	Year of issue: 1984	
	Certified values	
	SiO ₂ 0.70 %	Fe ₂ O ₃ 0.045 %
	CaO 55.4 %	K ₂ O 0.02 %
	MgO 0.15 %	MnO 0.010 %
	Al ₂ O ₃ 0.12 %	Na ₂ O (0.02) %
	BaO 0.006 %	P ₂ O ₅ (0.0055) %
		S 0.007 %
		SrO 0.019 %
		TiO ₂ 0.009 %
		L.O.I.* 43.4 %
	* Loss On Ignition	
BAS-BCS-CRM 513	Limestone 1 - Constituents	100 g
	Certified values	
	Al ₂ O ₃ 0.108 %	MgO 0.182 %
	CaO 55.59 %	MnO 0.0095 %
	Cr ₂ O ₃ 0.0012 %	Pb 0.0009 %
	Fe ₂ O ₃ 0.0275 %	S 0.0097 %
	K ₂ O 0.015 %	SiO ₂ 0.228 %
		SrO 0.0176 %
		Zn 0.0014 %
		LOI* 43.61 %
	*Loss On Ignition	
ECRM-B 782-1	Dolomite - powder	100 g
	Year of issue: 1996	
	Certified values	
	Si 0.124 ± 0.003 %*	B (0.0012) %
	SiO ₂ 0.266 ± 0.007 %*	Ba (0.0007) %
	Ca 21.68 ± 0.05 %*	Fe 0.314 ± 0.005 %*
	CaO 30.34 ± 0.07 %*	K 0.0216 ± 0.0013 %*
	Mg 12.84 ± 0.09 %*	K ₂ O 0.0260 ± 0.0016 %*
	MgO 21.29 ± 0.15 %*	Mn 0.063 ± 0.002 %*
	Al 0.055 ± 0.003 %*	MnO 0.081 ± 0.003 %*
	Al ₂ O ₃ 0.104 ± 0.006 %*	Ni (0.0004) %
		P 0.0056 ± 0.0003 %*
		P ₂ O ₅ 0.0128 ± 0.0007 %*
		Pb 0.0027 ± 0.0002 %*
		S (0.0159) %
		Ti 0.0025 ± 0.0002 %*
		TiO ₂ 0.0042 ± 0.0004 %*
		Zn 0.0066 ± 0.0003 %*
		L.O.I.* 47.25 ± 0.12 %*
	(Values in parenthesis are indicative values)	
	* 95%-confidence interval	
	* Loss On Ignition	
NCS DC14021A	Dolomite - Constituents	70 g
	Certified values	
	Al ₂ O ₃ 0.024 %	MnO 0.020 %
	CaO 35.02 %	Na ₂ O 0.013 %
	Fe ₂ O ₃ 0.495 %	P 0.0012 %
	MgO 17.88 %	S 0.0093 %
	SiO ₂ 0.049 %	L.O.I.* 46.32 %
	Indicative value for K ₂ O	
	* Loss On Ignition	
NCS DC14019A	Dolomite - Constituents	70 g
	Certified values	
	Al ₂ O ₃ 0.017 %	MgO 20.37 %
	CaO 32.11 %	MnO 0.032 %
	Fe ₂ O ₃ 0.224 %	Na ₂ O 0.023 %
	K ₂ O 0.0011 %	P 0.0010 %
		S 0.018 %
		SiO ₂ 0.021 %
		L.O.I.* 46.89 %
	* Loss On Ignition	
BAS-BCS-CRM 512	Dolomite 1 - Constituents	100 g
	Certified values	
	Al ₂ O ₃ 0.055 %	MgO 21.59 %
	CaO 30.61 %	MnO 0.03 %
	Fe ₂ O ₃ 0.03 %	SiO ₂ 0.379 %
		SrO 0.024 %
		TiO ₂ 0.002 %
		LOI* 46.8 %
	*Loss On Ignition	

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Code	Product	Unit
ECRM-F 702-1	Dolomite - powder Year of issue: 1971 Certified values Si..... 1.04 ± 0.03 % Al 0.21 ± 0.04 % P 0.024 ± 0.003 % Ca 21.48 ± 0.27 % Fe 0.440 ± 0.025 % S 0.027 ± 0.010 % Mg 12.37 ± 0.33 % Mn 0.098 ± 0.006 % Ti 0.013 ± 0.005 %	100 g
ECRM-F 701-1	Calcite - powder Year of issue: 1970 Certified values Si..... 0.93 ± 0.03 % Fe 0.73 ± 0.05 % P 0.022 ± 0.004 % Ca 37.66 ± 0.22 % K (0.090) % Pb (< 0.005) % Mg 0.36 ± 0.04 % Mn 0.022 ± 0.004 % S 0.040 ± 0.010 % Al 0.29 ± 0.04 % Mo (< 0.003) % Ti 0.018 ± 0.003 % C (11.5) % Na (0.020) % Zn (< 0.005) % Cr (< 0.002) % Ni (0.003) % L.O.I.* 42.4 ± 0.22 % (Values in parenthesis are indicative values) * Loss On Ignition	100 g
ECRM-F 778-1	High carbon magnesia - powder Year of issue: 1986 Certified values Si..... 0.489 ± 0.019 % B ₂ O ₃ 0.0039 % Ni (0.007) % SiO ₂ 1.046 % C 14.00 ± 0.22 % P (0.004) % Ca 0.883 ± 0.024 % Cr..... 0.102 ± 0.004 % Pb (< 0.001) % CaO 1.236 % Cr ₂ O ₃ 0.149 % TiO ₂ (0.008) % Mg 48.87 ± 0.27 % Fe 0.67 ± 0.05 % Zn (< 0.002) % MgO 81.03 % K (0.020) % Zr (< 0.002) % Al 0.297 ± 0.008 % Mn 0.011 ± 0.001 % L.O.I.* 15.38 ± 0.14 % Al ₂ O ₃ 0.561 % MnO 0.014 % B 0.0012 ± 0.0001 % Na (0.023) % (Values in parenthesis are indicative values) * Loss On Ignition	100 g
BAS-BCS-CRM 309	Sillimanite Certified values SiO ₂ 34.1 % CaO 0.22 % BaO (0.006) % Al ₂ O ₃ 61.1 % MgO 0.17 % Li ₂ O (0.01) % TiO ₂ 1.92 % Na ₂ O 0.34 % SrO (0.003) % Fe ₂ O ₃ 1.51 % K ₂ O 0.46 % MnO (0.03) % L.O.I (0.1) % (Values in parenthesis are indicative values)	100 g
BAS-BCS-CRM 313/1	High purity silica Certified values SiO ₂ 99.78 % CaO 0.006 % L.O.I (0.1) % Al ₂ O ₃ 0.036 % MgO 0.0013 % Cr ₂ O ₃ (<0.0002) % TiO ₂ 0.017 % Na ₂ O 0.003 % Li ₂ O (0.0005) % Fe ₂ O ₃ 0.012 % K ₂ O 0.005 % MnO 0.00013 % ZrO ₂ (0.002) % (Values in parenthesis are indicative values)	100 g
BAS-BCS-CRM 358	Zirconia Certified values SiO ₂ 0.2 % MgO 3.42 % BaO 0.1 % Al ₂ O ₃ 0.08 % Na ₂ O (<0.01) % HfO ₂ 1.63 % TiO ₂ 0.2 % K ₂ O (<0.01) % SrO 0.07 % Fe ₂ O ₃ 0.064 % ZrO ₂ 92.7 % ThO ₂ (0.0007) % CaO 1.5 % L.O.I 0.08 % U ₃ O ₈ (0.08) % (Values in parenthesis are indicative values)	100 g
BAS-BCS-CRM 362	Mine tailings sample Certified values SiO ₂ 9.03 % Na ₂ O 0.084 % BaO (2.02) % Al ₂ O ₃ 0.667 % K ₂ O 0.14 % Cr ₂ O ₃ (0.003) % TiO ₂ 0.047 % PbO 2.63 % SrO 0.034 % Fe ₂ O ₃ 0.483 % ZnO 2.59 % C (9.9) % Mn ₃ O ₄ 0.829 % P ₂ O ₅ (0.014) % Cd 0.02 % CaO 44.21 % S 1.48 % Ni (0.001) % MgO 0.068 % L.O.I 32.81 % (Values in parenthesis are indicative values)	100 g

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Code	Product	Unit
BAS-BCS-CRM 369	Magnesite-Chrome	100 g
	Certified values	
	SiO ₂ 2.59 %	CaO 1.17 %
	Al ₂ O ₃ 14.7 %	MgO 53.5 %
	TiO ₂ 0.14 %	Na ₂ O 0.05 %
	Fe ₂ O ₃ 10.3 %	K ₂ O 0.03 %
	MnO 0.11 %	BaO (<0.01) %
	Cr ₂ O ₃ 17.2 %	Li ₂ O 0.03 %
		SrO (<0.01) %
		Ni (0.15) %
	(Values in parenthesis are indicative values)	
BAS-BCS-CRM 370	Magnesite-Chrome	100 g
	Certified values	
	SiO ₂ 3.01 %	CaO 1.54 %
	Al ₂ O ₃ 12.3 %	MgO 61.8 %
	TiO ₂ 0.13 %	Na ₂ O 0.06 %
	Fe ₂ O ₃ 7.23 %	K ₂ O 0.03 %
	MnO 0.11 %	BaO <0,01 %
	Cr ₂ O ₃ 13.4 %	Li ₂ O 0.03 %
		SrO <0.01 %
		Ni 0.08 %
BAS-BCS-CRM 376/1	Feldspar 1 - Constituents	100 g
	Certified values	
	Al ₂ O ₃ 18.63%	Fe ₂ O ₃ 0.085%
	BaO 0.0210%	K ₂ O 11.59%
	CaO 0.421%	PbO 0.0090%
	SiO ₂ 65.77%	LOI* 0.203%
	*Loss On Ignition	
BAS-BCS-CRM 375/1	Soda feldspar	100 g
	Certified values	
	SiO ₂ 69.26 %	K ₂ O 1.47 %
	Al ₂ O ₃ 17.89 %	PbO (0.0004) %
	TiO ₂ 0.313 %	ZnO (0.0005) %
	Fe ₂ O ₃ 0.291 %	P ₂ O ₅ 0.226 %
	CaO 0.78 %	ZrO ₂ (0.0107) %
	MgO 0.18 %	L.O.I. 0.72 %
	Na ₂ O 8.89 %	BaO (0.0106) %
	Cr ₂ O ₃ (0.0018) %	HfO ₂ (0.0004) %
		SrO (0.012) %
		ThO ₂ (0.0011) %
		U ₃ O ₈ (0.0002) %
		Y ₂ O ₃ (0.0023) %
	(Values in parenthesis are indicative values)	
BAS-BCS-CRM 376/1	Potash feldspar	100 g
	Certified values	
	SiO ₂ 65.77 %	CaO 0.421 %
	Al ₂ O ₃ 18.63 %	MgO (0.03) %
	TiO ₂ (<0.01) %	Na ₂ O 3.00 %
	Fe ₂ O ₃ 0.085 %	K ₂ O 11.59 %
	Mn ₃ O ₄ (0.004) %	PbO 0.009 %
	P ₂ O ₅ (0.02) %	ZrO ₂ (<0.01) %
		L.O.I. 0.203 %
		BaO 0.021 %
		Cr ₂ O ₃ 0.001 %
	(Values in parenthesis are indicative values)	
BAS-BCS-CRM 388	Zircon	100 g
	Certified values	
	SiO ₂ 32.7 %	MgO (<0.05) %
	Al ₂ O ₃ 0.291 %	Na ₂ O (<0.02) %
	TiO ₂ 0.232 %	K ₂ O (<0.03) %
	Fe ₂ O ₃ 0.049 %	P ₂ O ₅ 0.12 %
	CaO (0.04) %	ZrO ₂ 64.9 %
	L.O.I. (0.2) %	HfO ₂ 1.3 %
		ThO ₂ 0.018 %
		U ₃ O ₈ 0.034 %
		Y ₂ O ₃ 0.136 %
	(Values in parenthesis are indicative values)	
NIST-70a	Potassium feldspar - Constituents	40 g
	Collected from the Kingman feldspar mine in Arizona, USA.	
	Certified values	
	Al ₂ O ₃ 17.9 %	K ₂ O 11.8 %
	BaO 0.02 %	Na ₂ O 2.55 %
	CaO 0.11 %	Rb ₂ O 0.06 %
	Fe ₂ O ₃ 0.075 %	SiO ₂ 67.12 %
	TiO ₂ 0.01 %	L.O.I.* 0.40 %
	* Loss On Ignition	
NCS DC61102	Potassium feldspar - Constituents	50 g
	Certified values	
	Al ₂ O ₃ 18.63 %	K ₂ O 9.6 %
	CaO 0.76 %	MgO 0.054 %
	Fe ₂ O ₃ 0.19 %	Na ₂ O 3.69 %
	SiO ₂ 66.26 %	TiO ₂ 0.048 %
		L.O.I.* 0.86 %
	* Loss On Ignition	
BAS-BCS-CRM 389/1	High purity magnesia	100 g
	Certified values	
	SiO ₂ 0.274 %	MgO 97.89 %
	Al ₂ O ₃ 0.104 %	ZnO (0.0029) %
	TiO ₂ 0.0051 %	P ₂ O ₅ 0.0295 %
	Fe ₂ O ₃ 0.607 %	ZrO ₂ (0.0008) %
	MnO 0.1 %	B ₂ O ₃ 0.015 %
	CaO 0.88 %	BaO 0.0015 %
	Cr ₂ O ₃ 0.004 %	SrO 0.0007 %
		Y ₂ O ₃ 0.0029 %
		Ni 0.0012 %
	(Values in parenthesis are indicative values)	

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Code	Product	Unit
BAS-BCS-CRM 396	Low silica magnesite chrome	100 g
	Certified values	
	SiO ₂ 1.37 %	CaO..... 1.12 %
	Al ₂ O ₃ 5.73 %	MgO..... 64.6 %
	TiO ₂ 0.26 %	Na ₂ O..... (0.06) %
	Fe ₂ O ₃ 10.9 %	K ₂ O..... (0.03) %
	MnO..... 0.17 %	L.O.I..... (0.04) %
	(Values in parenthesis are indicative values)	
ECRM-D 777-1	Silica brick - powder	100 g
	Year of issue: 1983	
	Certified values	
	Si..... 44.44 ± 0.15 %	MgO..... 0.071 ± 0.012 %
	SiO ₂ 95.06 ± 0.32 %	Al..... 0.42 ± 0.02 %
	Ca..... 2.02 ± 0.08 %	Al ₂ O ₃ 0.80 ± 0.04 %
	CaO..... 2.83 ± 0.10 %	Fe..... 0.23 ± 0.03 %
	Mg..... 0.043 ± 0.007 %	Fe ₂ O ₃ 0.33 ± 0.04 %
		K..... 0.13 ± 0.02 %
		K ₂ O..... 0.15 ± 0.02 %
		Na..... 0.02 %
		Ti..... 0.27 ± 0.02 %
ECRM-B 776-1	Firebrick - powder	100 g
	Year of issue: 1983	
	Certified values	
	Si..... 29.34 ± 0.18 %	BaO..... 0.122 ± 0.011 %
	SiO ₂ 62.76 ± 0.39 %	Cr..... 0.015 ± 0.002 %
	Ca..... 0.221 ± 0.013 %	Cr ₂ O ₃ 0.022 ± 0.003 %
	CaO..... 0.310 ± 0.018 %	Fe..... 0.999 ± 0.017 %
	Mg..... 0.287 ± 0.010 %	Fe ₂ O ₃ 1.43 ± 0.02 %
	MgO..... 0.476 ± 0.016 %	K..... 2.42 ± 0.05 %
	Al..... 15.50 ± 0.12 %	K ₂ O..... 2.92 ± 0.07 %
	Al ₂ O ₃ 29.28 ± 0.22 %	Li..... 0.009 ± 0.001 %
	Ba..... 0.109 ± 0.010 %	Li ₂ O..... 0.019 ± 0.002 %
		Na..... 0.362 ± 0.015 %
		Na ₂ O..... 0.488 ± 0.020 %
		P..... 0.027 ± 0.003 %
		P ₂ O ₅ 0.062 ± 0.007 %
		Ti..... 0.969 ± 0.015 %
		TiO ₂ 1.62 ± 0.03 %
		Zr..... (0.030) %
		L.O.I.*..... (0.3) %
	(Values in parenthesis are indicative values)	
	* Loss On Ignition	
ECRM-D 779-1	Magnesite - powder	100 g
	Year of issue: 1991	
	Certified values	
	Si..... 0.182 ± 0.015 %	B..... 0.0116 ± 0.0012 %
	Ca..... 1.691 ± 0.023 %	Cr..... (0.0030) %
	Mg..... (54.57) %	Fe..... 3.73 ± 0.06 %
	Al..... 0.105 ± 0.007 %	K..... (0.0020) %
		Mn..... 0.503 ± 0.017 %
		Na..... (0.0058) %
		P..... 0.0267 ± 0.0026 %
		Ti..... 0.0081 ± 0.0012 %
	(Values in parenthesis are indicative values)	
ECRM-B 781-1	Silicon carbide refractory with 35.6% silicon and 48.3% carbon - powder	100 g
	Year of issue: 1993	
	Certified values	
	Si..... 35.56 ± 0.28 %	Cfrei..... (37.22) %
	Ca..... (0.0433) %	Fe..... (0.806) %
	Mg..... (0.0421) %	K..... (0.3765) %
	Al..... 4.39 ± 0.04 %	Mn..... (0.0274) %
	B..... (0.0149) %	Mo..... (0.0264) %
	C..... 48.25 ± 0.11 %	N..... (0.0282) %
		Na..... (0.0308) %
		Ni..... (0.0210) %
		P..... (0.0117) %
		Ti..... (0.0320) %
		V..... (0.0216) %
	(Values in parenthesis are indicative values)	
ECRM-B 783-1	Tungsten carbide - powder	100 g
	Year of issue: 2005	
	Certified values	
	C..... 6.188 ± 0.011+ %	Fe..... 0.0022 ± 0.0002+ %
	C _{free} (0.042) %	O..... (0.016) %
	(Values in parenthesis are indicative values)	
NCS DC60112	Gypsum - Constituents	50 g
	Certified values	
	Al ₂ O ₃ 0.34 %	H ₂ O ⁺ 0.39 %
	CaO..... 39.24 %	K ₂ O..... 0.094 %
	Cl..... 0.033 %	MgO..... 1.74 %
	Fe ₂ O ₃ 0.16 %	Na ₂ O..... 0.065 %
		SiO ₂ 1.68 %
		SO ₃ 51.91 %
		TiO ₂ 0.016 %
		L.O.I.*..... 4.55 %
	Indicative values for CO ₂ , SrO	
	* Loss On Ignition	
NCS DC60113	Gypsum - Constituents	50 g
	Certified values	
	Al ₂ O ₃ 1.92 %	H ₂ O ⁺ 14.27 %
	CaO..... 28.50 %	K ₂ O..... 0.38 %
	Cl..... 0.019 %	MgO..... 4.92 %
	Fe ₂ O ₃ 0.63 %	Na ₂ O..... 0.021 %
		SiO ₂ 7.27 %
		SO ₃ 32.55 %
		TiO ₂ 0.10 %
	Indicative values for CO ₂ , SrO, L.O.I.*	
	* Loss On Ignition	

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NCS DC60115	Gypsum - Constituents Certified values Al ₂ O ₃ 0.14 % H ₂ O ⁺ 17.95 % SiO ₂ 0.63 % CaO 32.30 % K ₂ O 0.026 % SO ₃ 40.72 % Cl 0.0032 % MgO 2.47 % TiO ₂ 0.010 % Fe ₂ O ₃ 0.11 % Na ₂ O 0.014 % L.O.I.* 23.60 % Indicative values for CO ₂ , SrO * Loss On Ignition	50 g
NCS DC14022	Fluorspar - Constituents Certified values CaF ₂ 94.91 % Na ₂ O 0.005 % SiO ₂ 4.72 % Fe ₂ O ₃ 0.096 % P 0.0025 % K ₂ O 0.019 % S 0.029 % Indicative value for CaCO ₃	65 g
NCS DC14023	Fluorspar - Constituents Certified values CaF ₂ 90.87 % Na ₂ O 0.005 % SiO ₂ 8.35 % Fe ₂ O ₃ 0.124 % P 0.0031 % K ₂ O 0.026 % S 0.090 % Indicative value for CaCO ₃	65 g
NCS DC14024	Fluorspar - Constituents Certified values CaF ₂ 92.57 % Na ₂ O 0.006 % SiO ₂ 6.84 % Fe ₂ O ₃ 0.124 % P 0.0024 % K ₂ O 0.029 % S 0.043 % Indicative value for CaCO ₃	65 g
NCS DC14025	Fluorspar - Constituents Certified values CaF ₂ 85.21 % Na ₂ O 0.005 % SiO ₂ 14.15 % Fe ₂ O ₃ 0.209 % P 0.0013 % K ₂ O 0.044 % S 0.045 % Indicative value for CaCO ₃	65 g
New NCS DC14026A	Fluorspar - Constituents Certified values CaCO ₃ 0.44 % K ₂ O 0.024 % S 0.011 % CaF ₂ 98.55 % Na ₂ O 0.005 % SiO ₂ 0.70 % Total Fe 0.44 % P 0.0075 %	65 g
BAS-BCS-CRM 392	Fluorspar Certified values SiO ₂ 0.67 % BaO 0.37 % Pb 0.18 % CaF ₂ 97.2 % S 0.12 % CaO 0.52 % CO ₂ 0.48 %	100 g
NIST-79a	Fluorspar, customs grade - Calcium fluoride Certified value CaF ₂ 297.39 %	120 g
NIST-180	Fluorspar, high grade - Calcium fluoride Certified value CaF ₂ 98.80 %	120 g
NCS DC60116	Siliceous sandstone - Constituents Certified values Al ₂ O ₃ 0.84 % K ₂ O 0.061 % TiO ₂ 0.020 % CaO 0.077 % MgO 0.066 % L.O.I.* 0.24 % Cr ₂ O ₃ 0.00034 % Na ₂ O 0.021 % Fe ₂ O ₃ 0.093 % SiO ₂ 98.51 % Indicative values for MnO, P ₂ O ₅ * Loss On Ignition	60 g
New NIM-GBW03113	Siliceous sandstone - Constituents Certified values Al ₂ O ₃ 2.36 % K ₂ O 0.67 % TiO ₂ 0.036 % CaO 0.17 % MgO 0.098 % L.O.I.* 0.35 % Cr ₂ O ₃ 0.00054 % Na ₂ O 0.25 % Fe ₂ O ₃ 0.21 % SiO ₂ 95.74 % Indicative values for MnO, P ₂ O ₅ * Loss On Ignition	60 g

Rocks, ceramic materials and minerals

Code	Product	Unit
NCS DC60118	Siliceous sandstone - Constituents Certified values Al ₂ O ₃ 5.48 % K ₂ O 2.07 % TiO ₂ 0.102 % CaO 0.34 % MgO 0.16 % L.O.I.* 0.53 % Cr ₂ O ₃ 0.0012 % Na ₂ O 1.09 % Fe ₂ O ₃ 0.48 % SiO ₂ 89.54 % Indicative values for MnO, P ₂ O ₅ * Loss On Ignition	60 g
NCS DC60122	Kaolin - Constituents Certified values Al ₂ O ₃ 31.41 % MgO 0.12 % SO ₃ 0.53 % CaO 0.052 % MnO 0.0032 % TiO ₂ 0.69 % Fe ₂ O ₃ 0.50 % Na ₂ O 0.015 % L.O.I.* 11.94 % H ₂ O ⁺ 11.72 % P ₂ O ₅ 0.099 % K ₂ O 0.34 % SiO ₂ 54.55 % Indicative values for CO ₂ , FeO * Loss On Ignition	50 g
NCS DC60123	Kaolin - Constituents Certified values Al ₂ O ₃ 38.62 % MgO 0.068 % SO ₃ 0.12 % CaO 0.16 % MnO 0.0054 % TiO ₂ 0.39 % Fe ₂ O ₃ 0.72 % Na ₂ O 0.069 % L.O.I.* 15.00 % H ₂ O ⁺ 14.77 % P ₂ O ₅ 0.21 % K ₂ O 0.049 % SiO ₂ 44.53 % * Loss On Ignition	50 g
NIST-278	Obsidian rock - Constituents Collected from Clear Lake, Newberry Crater, Oregon, USA. Certified values Al ₂ O ₃ 14.15 % MnO 0.052 % SiO ₂ 73.05 % CaO 0.983 % Na ₂ O 4.84 % Sr 63.5 mg/kg Cu 5.9 mg/kg Ni 3.6 mg/kg Th 12.4 mg/kg FeO 1.36 % P ₂ O ₅ 0.036 % TiO ₂ 0.245 % Fe ₂ O ₃ 2.04 % Pb 16.4 mg/kg Tl 0.54 mg/kg K ₂ O 4.16 % Rb 127.5 mg/kg U 4.58 mg/kg Indicative values for B, Ba, C (total Carbon), CO ₂ , Ce, Co, Cr, Cs, Eu, F, Gd, Hf, Lu, MgO, Sb, Sc, Sm, Ta, Tb, Yb, Zn	35 g
NIST-688	Basalt rock - Constituents Collected from a Cenozoic basalt flow near Jackpot, Nevada, USA. Certified values Al ₂ O ₃ 17.36 % MnO 0.167 % SiO ₂ 48.4 % Cr 332 mg/kg Na ₂ O 2.15 % Sr 169.2 mg/kg FeO 7.64 % Pb 3.3 mg/kg Th 0.33 mg/kg Fe ₂ O ₃ 10.35 % P ₂ O ₅ 0.134 % TiO ₂ 1.17 % K ₂ O 0.187 % Rb 1.91 mg/kg Indicative values for Ba, CO ₂ , Ce, CaO, Co, Cu, Eu, F, Hf, Lu, MgO, Sm, Ni, Tb, Yb, V, Zn	60 g
NIST-120c	Phosphate rock, Florida - Constituents Certified values Al ₂ O ₃ 1.30 % MnO 0.027 % U ₃ O ₈ 0.0135 % Fe ₂ O ₃ 1.08 % Na ₂ O 0.52 % V ₂ O ₃ 0.016 % K ₂ O 0.147 % TiO ₂ 0.103 % Values for the AFPC-method-Dependent concentrations also available	90 g
NIST-694	Phosphate rock, western - Constituents Certified values Al ₂ O ₃ 1.8 % K ₂ O 0.51 % SiO ₂ 11.2 % CaO 43.6 % MgO 0.33 % U 0.01414 % CdO 0.015 % MnO 0.0116 % V ₂ O ₅ 0.031 % F 3.2 % Na ₂ O 0.086 % Fe ₂ O ₃ 0.79 % P ₂ O ₅ 30.2 % Indicative values for, Cr ₂ O ₃ , ZnO, TiO ₂	90 g
NIST-2780	Hard rock mine waste - elements This Standard Reference Material (SRM [®]) is intended for use in the evaluation of methods and for the calibration of apparatus used to determine heavy metals and other elements in hard rock mine waste and materials of a similar matrix. Certified values Al 8.87 % Mg 0.533 % Zn 0.257 % Ca 0.195 % K 3.38 % As 48.8 mg/kg Fe 2.784 % Na 0.221 % Cd 12.10 mg/kg Pb 0.577 % S 1.263 % Hg 0.710 mg/kg	50 g

Rocks, ceramic materials and minerals

Code	Product	Unit
NCS DC79001	Phosphate rock - Constituents Certified values	50 g
	Al ₂ O ₃ 0.58 % I 0.0052 % P ₂ O ₅ 36.89 %	
	CaO 51.32 % K ₂ O 0.17 % SiO ₂ 3.26 %	
	CO ₂ 2.15 % MgO 0.43 % SrO 0.077 %	
	F 3.54 % MnO 0.024 % TiO ₂ 0.037 %	
	Fe ₂ O ₃ 1.04 % Na ₂ O 0.33 %	
NCS DC79002	Phosphate rock - Constituents Certified values	50 g
	Al ₂ O ₃ 2.58 % I 0.0059 % P ₂ O ₅ 20.89 %	
	CaO 40.72 % K ₂ O 0.28 % SiO ₂ 3.61 %	
	CO ₂ 18.46 % MgO 8.19 % SrO 0.16 %	
	F 2.05 % MnO 0.015 % TiO ₂ 0.14 %	
	Fe ₂ O ₃ 1.08 % Na ₂ O 0.059 % Total S 0.79 %	
IC-CTA-AC-1	Apatite concentrate Apatite concentrate originating from Kola Peninsula used as a raw material for the production of phosphoric acid. Certified values	50 g
	Ba 767 mg/kg Lu 1.08 mg/kg Th 21.8 mg/kg	
	Ca 32.7 wt. % Mn 317 mg/kg Ti 2927 mg/kg	
	Ce 3326 mg/kg Na 3841 mg/kg U 4.4 mg/kg	
	Co 2.72 mg/kg Nd 1087 mg/kg V 104 mg/kg	
	Cu 54.0 mg/kg Sc 0.244 mg/kg Y 272 mg/kg	
	Eu 46.7 mg/kg Si 0.57 wt. % Yb 11.4 mg/kg	
	Gd 124 mg/kg Sm 162 mg/kg Zn 38.0 mg/kg	
	Hf 1.13 mg/kg Ta 2.65 mg/kg	
	La 2176 mg/kg Tb 13.9 mg/kg	
	Informational values for Al, Fe, Sr, Cr, Dy, Er, Ho, K, Mg, Ni, Pr and Zr.	
NCS DC72302	Ultrabasic rocks - Constituents Certified and indicative values for a wide range of constituent elements and oxides.	150 g
New NIM-GBW07127	Carbonate rock - Constituents Certified values	50 g
	Ag 0.020±0.010 µg/g Rb 1.2±0.2 µg/g Dy 0.12±0.02 µg/g	
	As 0.50±0.05 µg/g Sc 0.40±0.16 µg/g Ho 0.034±0.010 µg/g	
	Ba 9.7±0.9 µg/g Sb 0.08±0.01 µg/g Er 0.09±0.02 µg/g	
	Be 0.08±0.02 µg/g Se 0.014±0.003 µg/g Tm 0.018±0.006 µg/g	
	Bi 0.015±0.004 µg/g Sr 227±12 µg/g Yb 0.11±0.02 µg/g	
	Cd 0.10±0.03 µg/g Ta (0.06) µg/g Lu 0.019±0.003 µg/g	
	Cl 34±15 µg/g Te 0.008±0.003 µg/g Y 1.2±0.2 µg/g	
	Co 0.45±0.08 µg/g Th 0.25±0.07 µg/g SiO ₂ 0.55±0.05 %	
	Cr 4.8±1.2 µg/g Ti 66±6 µg/g Al ₂ O ₃ 0.17±0.02 %	
	Cs 0.07±0.03 µg/g Tl 0.022±0.016 µg/g Fe ₂ O ₃ (T) 0.193±0.004 %	
	Cu 2.2±0.5 µg/g U 0.59±0.07 µg/g MgO 6.76±0.08 %	
	F 76±19 µg/g V 4.8±1.1 µg/g CaO 47.89±0.12 %	
	Ga 0.3±0.2 µg/g W 0.17±0.05 µg/g Na ₂ O 0.022±0.004 %	
	Ge 0.11±0.06 µg/g Zn 8.1±2.0 µg/g K ₂ O 0.043±0.002 %	
	Hf 1.4±0.4 µg/g Zr 53.7±2.8 µg/g TiO ₂ 0.011±0.001 %	
	Hg 0.004±0.001 µg/g La 0.9±0.1 µg/g MnO 0.009±0.001 %	
	Li 2.9±1.0 µg/g Ce 1.4±0.2 µg/g P ₂ O ₅ 0.008±0.001 %	
	Mn 70±4 µg/g Pr 0.22±0.08 µg/g SO ₃ 0.017±0.004 %	
	Mo 0.35±0.07 µg/g Nd 0.66±0.08 µg/g H ₂ O ⁺ 0.37±0.16 %	
	Nb 0.3±0.1 µg/g Sm 0.15±0.03 µg/g FeO 0.15±0.01 %	
	Ni 5.8±1.0 µg/g Eu 0.037±0.006 µg/g CO ₂ 44.39±0.15 %	
	P 35±3 µg/g Gd 0.13±0.03 µg/g L.O.I 43.92±0.20 %	
	Pb 2.9±1.0 µg/g Tb 0.022±0.003 µg/g	
	Indicative values for C(org), Br, B, I, In, Sn	

Rocks, ceramic materials and minerals

Code	Product	Unit			
NCS DC70302	Carbonate rock - Constituents	50 g			
Certified values					
Ag	0.021±0.016 µg/g	Rb	1.6±0.1 µg/g	Dy	0.15±0.02 µg/g
As	0.29±0.05 µg/g	Sc	0.5±0.2 µg/g	Ho	0.034±0.006 µg/g
Ba	11.6±0.9 µg/g	Sb	0.09±0.02 µg/g	Er	0.12±0.04 µg/g
Be	0.12±0.02 µg/g	Se	0.015±0.004 µg/g	Tm	0.020±0.007 µg/g
Bi	0.020±0.002 µg/g	Sr	191±10 µg/g	Yb	0.13±0.03 µg/g
Cd	0.09±0.02 µg/g	Ta	0.05±0.03 µg/g	Lu	0.022±0.004 µg/g
Cl	34±17 µg/g	Te	0.008±0.004 µg/g	Y	1.4±0.2 µg/g
Co	0.5±0.1 µg/g	Th	0.25±0.05 µg/g	SiO ₂	0.72±0.04 %
Cr	5.6±1.9 µg/g	Ti	132±24 µg/g	Al ₂ O ₃	0.22±0.01 %
Cs	0.09±0.02 µg/g	Tl	0.023±0.009 µg/g	Fe ₂ O ₃ (T)	0.205±0.004 %
Cu	2.2±0.6 µg/g	U	0.39±0.05 µg/g	MgO	11.62±0.10 %
F	91±19 µg/g	V	5.0±0.8 µg/g	CaO	41.95±0.14 %
Ga	0.33±0.05 µg/g	W	0.18±0.04 µg/g	Na ₂ O	0.029±0.005 %
Ge	0.12±0.06 µg/g	Zn	9.5±2.3 µg/g	K ₂ O	0.052±0.004 %
Hf	2.1±0.4 µg/g	Zr	76.8±2.5 µg/g	TiO ₂	0.022±0.004 %
Hg	0.015±0.001 µg/g	La	1.2±0.1 µg/g	MnO	0.009±0.001 %
Li	3.1±0.9 µg/g	Ce	1.9±0.4 µg/g	P ₂ O ₅	0.014±0.003 %
Mn	70±5 µg/g	Pr	0.24±0.03 µg/g	SO ₃	0.013±0.003 %
Mo	0.26±0.08 µg/g	Nd	0.86±0.08 µg/g	H ₂ O ⁺	0.31±0.10 %
Nb	0.46±0.04 µg/g	Sm	0.19±0.03 µg/g	FeO	0.16±0.01 %
Ni	4.3±1.1 µg/g	Eu	0.052±0.007 µg/g	CO ₂	44.89±0.08 %
P	62±10 µg/g	Gd	0.16±0.03 µg/g	L.O.I.	44.75±0.18 %
Pb	3.9±1.0 µg/g	Tb	0.031±0.007 µg/g		
Indicative values for C(org), H ₂ O ⁻ , Br, B, I, In, Sn					

Code	Product	Unit			
NCS DC70303	Carbonate rock - Constituents	50 g			
Certified values					
Ag	0.016±0.002 µg/g	Li	2.7±1.3 µg/g	V	4.0±1.3 µg/g
As	0.78±0.06 µg/g	Lu	0.13±0.02 µg/g	W	0.13±0.03 µg/g
Ba	8.0±1.8 µg/g	Mn	232±78 µg/g	Y	6.1±1.2 µg/g
Be	0.09±0.02 µg/g	Mo	0.18±0.08 µg/g	Yb	0.68±0.12 µg/g
Bi	0.011±0.001 µg/g	Nb	0.34±0.09 µg/g	Zn	6.4±1.4 µg/g
Br	0.4±0.1 µg/g	Nd	1.80±0.2 µg/g	Zr	443±22 µg/g
Cd	0.59±0.15 µg/g	P	99±15 µg/g	SiO ₂	0.30±0.03 %
Ce	2.2±0.3 µg/g	Pb	1.4±0.9 µg/g	Al ₂ O ₃	0.15±0.01 %
Cl	50±6 µg/g	Pr	0.49±0.06 µg/g	Fe ₂ O ₃ (T)	0.070±0.003 %
Cr	3.8±1.2 µg/g	Rb	0.6±0.2 µg/g	MgO	0.24±0.05 %
Cs	0.13±0.02 µg/g	Sb	0.15±0.02 µg/g	CaO	55.49±0.11 %
Cu	2.2±0.7 µg/g	Sc	0.50±0.09 µg/g	Na ₂ O	0.014±0.004 %
Dy	0.51±0.08 µg/g	Se	0.007±0.003 µg/g	K ₂ O	0.012±0.002 %
Er	0.50±0.10 µg/g	Sm	0.38±0.03 µg/g	TiO ₂	0.007±0.001 %
Eu	0.078±0.005 µg/g	Sr	87±5 µg/g	MnO	0.030±0.001 %
F	60±18 µg/g	Ta	0.04±0.02 µg/g	P ₂ O ₅	0.023±0.004 %
Ga	0.3±0.1 µg/g	Tb	0.085±0.010 µg/g	SO ₃	0.011±0.004 %
Gd	0.39±0.05 µg/g	Te	0.009±0.003 µg/g	H ₂ O ⁺	0.23±0.06 %
Ge	0.10±0.06 µg/g	Th	0.54±0.06 µg/g	FeO	0.007±0.002 %
Hf	12.4±2.0 µg/g	Ti	42±6 µg/g	CO ₂	43.10±0.24 %
Hg	0.007±0.001 µg/g	Tl	0.04±0.02 µg/g	L.O.I.	43.30±0.19 %
Ho	0.13±0.03 µg/g	Tm	0.092±0.031 µg/g		
La	2.6±0.1 µg/g	U	0.66±0.1 µg/g		
Indicative values for C(org), H ₂ O ⁻ , Co, Ni, B, I, In, Sn					

Code	Product	Unit			
NCS DC70304	Carbonate rock - Constituents	50 g			
Certified values					
As	0.17±0.05 µg/g	Lu	0.010±0.003 µg/g	W	0.13±0.03 µg/g
Ba	4.9±1.3 µg/g	Mn	31±5 µg/g	Y	0.7±0.1 µg/g
Be	0.06±0.02 µg/g	Mo	0.14±0.05 µg/g	Yb	0.063±0.014 µg/g
Bi	0.016±0.004 µg/g	Nb	0.3±0.1 µg/g	Zn	3.3±1.0 µg/g
Cd	0.05±0.02 µg/g	Nd	0.61±0.11 µg/g	Zr	6.3±2.9 µg/g
Ce	1.3±0.2 µg/g	Ni	50.5±3.1 µg/g	SiO ₂	1.08±0.05 %
Cl	28±11 µg/g	P	22±11 µg/g	Al ₂ O ₃	0.18±0.02 %
Co	2.6±0.5 µg/g	Pb	1.7±0.8 µg/g	Fe ₂ O ₃ (T)	0.222±0.003 %
Cr	54±18 µg/g	Pr	0.15±0.03 µg/g	MgO	1.42±0.04 %
Cs	0.10±0.04 µg/g	Rb	1.6±0.1 µg/g	CaO	54.08±0.09 %
Cu	2.1±0.7 µg/g	Sb	0.03±0.01 µg/g	Na ₂ O	0.015±0.005 %
Dy	0.09±0.01 µg/g	Sc	0.4±0.1 µg/g	K ₂ O	0.043±0.003 %
Er	0.06±0.02 µg/g	Sm	0.11±0.02 µg/g	TiO ₂	0.007±0.001 %
Eu	0.025±0.006 µg/g	Sr	173±9 µg/g	MnO	0.004±0.001 %
F	71±18 µg/g	Ta	0.03±0.01 µg/g	P ₂ O ₅	0.005±0.002 %
Ga	0.3±0.1 µg/g	Tb	0.020±0.004 µg/g	SO ₃	0.014±0.005 %
Gd	0.10±0.02 µg/g	Te	0.009±0.002 µg/g	H ₂ O ⁺	0.14±0.04 %
Ge	0.12±0.07 µg/g	Th	0.24±0.07 µg/g	FeO	0.09±0.01 %
Hf	0.10±0.02 µg/g	Ti	42±6 µg/g	CO ₂	43.13±0.27 %
Hg	0.003±0.001 µg/g	Tm	0.021±0.013 µg/g	L.O.I.	42.64±0.11 %
Ho	0.022±0.005 µg/g	U	0.17±0.05 µg/g		
La	0.78±0.07 µg/g	V	3.6±1.2 µg/g		

Code	Product	Unit
NCS DC70305	Carbonate rock - Constituents	50 g
	Certified values	
As.....	0.96±0.08 µg/g	Li3.1±0.7 µg/g
Ba.....	0.52±0.04 %	Lu0.015±0.004 µg/g
Be.....	0.08±0.02 µg/g	Mn93±8 µg/g
Bi.....	0.025±0.005 µg/g	Mo0.19±0.04 µg/g
Br.....	6.1±1.3 µg/g	Nb0.4±0.1 µg/g
Cd.....	0.02±0.01 µg/g	Nd1.10±0.07 µg/g
Ce.....	2.5±0.2 µg/g	Ni2.9±0.7 µg/g
Cl.....	343±24 µg/g	P155±10 µg/g
Co.....	0.52±0.24 µg/g	Pb2.9±0.7 µg/g
Cr.....	3.4±0.8 µg/g	Pr0.28±0.02 µg/g
Cs.....	0.13±0.04 µg/g	Rb2.6±0.2 µg/g
Cu.....	2.8±0.7 µg/g	Sb0.06±0.01 µg/g
Dy.....	0.17±0.02 µg/g	Sc0.4±0.2 µg/g
Er.....	0.10±0.01 µg/g	Se0.013±0.004 µg/g
Eu.....	0.14±0.07 µg/g	Sm0.26±0.04 µg/g
F.....	459±40 µg/g	Sr158±8 µg/g
Ga.....	0.31±0.03 µg/g	Ta0.06±0.05 µg/g
Gd.....	0.22±0.06 µg/g	Tb0.032±0.004 µg/g
Ge.....	0.12±0.09 µg/g	Te0.008±0.004 µg/g
Hf.....	0.13±0.07 µg/g	Th0.45±0.14 µg/g
Hg.....	0.006±0.001 µg/g	Ti78±12 µg/g
Ho.....	0.034±0.005 µg/g	Tl0.04±0.01 µg/g
La.....	1.3±0.1 µg/g	Tm0.017±0.004 µg/g
		U0.70±0.05 µg/g
		V5.1±1.2 µg/g
		W0.17±0.05 µg/g
		Y1.1±0.1 µg/g
		Yb0.10±0.02 µg/g
		Zn3.6±2.0 µg/g
		Zr4.9±1.6 µg/g
		SiO ₂1.15±0.05 %
		Al ₂ O ₃0.29±0.02 %
		Fe ₂ O ₃ (T).....0.17±0.01 %
		MgO20.14±0.15 %
		CaO30.93±0.13 %
		Na ₂ O0.036±0.007 %
		K ₂ O0.16±0.01 %
		TiO ₂0.013±0.002 %
		MnO0.012±0.001 %
		P ₂ O ₅0.035±0.002 %
		SO ₃0.33±0.04 %
		H ₂ O ⁺0.39±0.12 %
		FeO0.07±0.01 %
		CO ₂45.58±0.14 %
		L.O.I.45.73±0.17 %
NCS DC70306	Carbonate rock - Constituents	50 g
	Certified values	
Ag.....	0.019±0.012 µg/g	Lu0.047±0.011 µg/g
As.....	3.7±0.2 µg/g	Mn689±46 µg/g
Ba.....	1.33%±0.11 %	Mo0.60±0.06 µg/g
Be.....	0.30±0.03 µg/g	Nb1.0±0.2 µg/g
Bi.....	0.058±0.006 µg/g	Nd3.42±0.32 µg/g
Cd.....	0.04±0.01 µg/g	Ni6.6±1.3 µg/g
Ce.....	8.1±0.4 µg/g	P527±27 µg/g
Cl.....	77±24 µg/g	Pb5.6±0.6 µg/g
Co.....	1.9±0.4 µg/g	Pr0.94±0.15 µg/g
Cr.....	8.1±1.3 µg/g	Rb10.6±0.6 µg/g
Cs.....	0.75±0.03 µg/g	Sb0.09±0.01 µg/g
Cu.....	8.3±1.1 µg/g	Sc1.1±0.2 µg/g
Dy.....	0.52±0.07 µg/g	Se0.018±0.004 µg/g
Er.....	0.31±0.06 µg/g	Sm0.74±0.10 µg/g
Eu.....	0.30±0.12 µg/g	Sr477±31 µg/g
F.....	835±99 µg/g	Ta0.11±0.04 µg/g
Ga.....	1.6±0.2 µg/g	Tb0.11±0.02 µg/g
Gd.....	0.69±0.29 µg/g	Te0.014±0.010 µg/g
Ge.....	0.16±0.08 µg/g	Th1.3±0.3 µg/g
Hf.....	0.3±0.1 µg/g	Ti288±18 µg/g
Ho.....	0.11±0.02 µg/g	Tl0.07±0.05 µg/g
La.....	4.1±0.5 µg/g	Tm0.052±0.009 µg/g
Li.....	5.1±1.1 µg/g	U0.94±0.07 µg/g
		V8.8±1.3 µg/g
		W0.19±0.05 µg/g
		Y3.1±0.5 µg/g
		Yb0.30±0.05 µg/g
		Zn13.7±2.2 µg/g
		Zr9.2±2.4 µg/g
		SiO ₂6.27±0.05 %
		Al ₂ O ₃1.13±0.04 %
		Fe ₂ O ₃ (T).....0.73±0.02 %
		MgO1.45±0.02 %
		CaO48.16±0.20 %
		Na ₂ O0.05±0.01 %
		K ₂ O0.40±0.02 %
		TiO ₂0.048±0.003 %
		MnO0.089±0.006 %
		P ₂ O ₅0.121±0.006 %
		SO ₃0.98±0.08 %
		H ₂ O ⁺0.52±0.12 %
		FeO0.49±0.03 %
		CO ₂38.69±0.06 %
		L.O.I.39.07±0.13 %
NCS DC70308	Carbonate rock - Constituents	50 g
	Certified values	
Ag.....	0.035±0.013 µg/g	In(0.02) µg/g
As.....	5.5±0.3 µg/g	La0.9±0.1 µg/g
B.....	(2.3) µg/g	Li3.0±0.8 µg/g
Ba.....	10.6±1.2 µg/g	Lu0.035±0.006 µg/g
Be.....	0.15±0.02 µg/g	Mn209±8 µg/g
Bi.....	0.012±0.004 µg/g	Mo0.80±0.08 µg/g
Br.....	0.9±0.2 µg/g	Nb0.4±0.1 µg/g
Cd.....	0.39±0.12 µg/g	Nd0.89±0.07 µg/g
Ce.....	1.5±0.1 µg/g	Ni5.6±1.1 µg/g
Cl.....	123±25 µg/g	P40±9 µg/g
Co.....	0.5±0.1 µg/g	Pb7.8±1.9 µg/g
Cr.....	9.7±1.5 µg/g	Pr0.21±0.03 µg/g
Cs.....	0.10±0.02 µg/g	Rb1.1±0.3 µg/g
Cu.....	2.9±0.6 µg/g	Sb0.59±0.11 µg/g
Dy.....	0.20±0.03 µg/g	Sc0.5±0.2 µg/g
Er.....	0.15±0.03 µg/g	Se0.10±0.02 µg/g
Eu.....	0.049±0.006 µg/g	Sm0.21±0.01 µg/g
F.....	179±16 µg/g	Sn(0.9) µg/g
Ga.....	0.4±0.1 µg/g	Sr85±4 µg/g
Gd.....	0.19±0.02 µg/g	Ta0.030±0.009 µg/g
Ge.....	0.11±0.07 µg/g	Tb0.035±0.005 µg/g
Hf.....	3.1±0.5 µg/g	Te0.016±0.012 µg/g
Hg.....	0.031±0.002 µg/g	Th0.29±0.04 µg/g
Ho.....	0.046±0.005 µg/g	Ti54±6 µg/g
I.....	(0.2) µg/g	Tl0.02±0.01 µg/g
		Tm0.030±0.009 µg/g
		U1.13±0.07 µg/g
		V7.5±0.8 µg/g
		W0.13±0.03 µg/g
		Y1.8±0.1 µg/g
		Yb0.19±0.03 µg/g
		Zn35.7±2.9 µg/g
		Zr113±14 µg/g
		SiO ₂1.17±0.04 %
		Al ₂ O ₃0.18±0.02 %
		Fe ₂ O ₃ (T).....0.448±0.009 %
		MgO14.96±0.07 %
		CaO38.08±0.12 %
		Na ₂ O0.030±0.006 %
		K ₂ O0.026±0.004 %
		TiO ₂0.009±0.001 %
		MnO0.027±0.001 %
		P ₂ O ₅0.009±0.002 %
		SO ₃0.041±0.009 %
		H ₂ O ⁺0.42±0.18 %
		FeO0.05±0.01 %
		CO ₂45.62±0.15 %
		L.O.I.44.61±0.19 %

Rocks, ceramic materials and minerals

Code	Product	Unit			
NCS DC70309	Carbonate rock - Constituents	50 g			
	Certified values				
Ag	0.045±0.020 µg/g	La	12.5±1.2 µg/g	U	1.04±0.06 µg/g
As	2.2±0.2 µg/g	Li	11.8±1.5 µg/g	V	38.5±1.9 µg/g
Ba	101±5 µg/g	Lu	0.091±0.020 µg/g	W	0.25±0.07 µg/g
Be	0.56±0.08 µg/g	Mn	318±8 µg/g	Y	8.0±0.9 µg/g
Bi	0.050±0.005 µg/g	Mo	0.60±0.07 µg/g	Yb	0.60±0.10 µg/g
Br	0.5±0.1 µg/g	Nb	6.5±1.3 µg/g	Zn	24.5±3.1 µg/g
Cd	0.15±0.03 µg/g	Nd	11.0±0.8 µg/g	Zr	47.0±7.6 µg/g
Ce	26.0±2.3 µg/g	Ni	19.2±1.8 µg/g	SiO ₂	11.07±0.07 %
Cl	96±46 µg/g	P	410±11 µg/g	Al ₂ O ₃	3.03±0.04 %
Co	7.0±0.7 µg/g	Pb	5.9±1.2 µg/g	Fe ₂ O ₃ (T)	1.77±0.04 %
Cr	34.0±4.3 µg/g	Pr	2.84±0.40 µg/g	MgO	1.36±0.03 %
Cs	1.98±0.12 µg/g	Rb	19.2±0.8 µg/g	CaO	43.76±0.09 %
Cu	18.7±1.3 µg/g	Sb	0.27±0.03 µg/g	Na ₂ O	0.17±0.02 %
Dy	1.39±0.19 µg/g	Sc	3.5±0.7 µg/g	K ₂ O	0.88±0.03 %
Er	0.75±0.14 µg/g	Se	0.24±0.03 µg/g	TiO ₂	0.430±0.008 %
Eu	0.53±0.04 µg/g	Sm	2.11±0.21 µg/g	MnO	0.041±0.002 %
F	454±31 µg/g	Sr	688±25 µg/g	P ₂ O ₅	0.094±0.003 %
Ga	3.7±0.5 µg/g	Ta	0.45±0.06 µg/g	SO ₃	1.18±0.13 %
Gd	1.81±0.23 µg/g	Tb	0.29±0.04 µg/g	H ₂ O ⁺	0.97±0.39 %
Ge	0.28±0.11 µg/g	Te	0.023±0.008 µg/g	FeO	0.79±0.07 %
Hf	1.2±0.2 µg/g	Th	1.9±0.1 µg/g	CO ₂	35.52±0.55 %
Hg	0.026±0.002 µg/g	Ti	0.258±0.005 µg/g	L.O.I.	36.57±0.16 %
Ho	0.25±0.06 µg/g	Tm	0.099±0.02 µg/g		
NCS DC70310	Carbonate rock - Constituents	50 g			
	Certified values				
Ag	0.022±0.013 µg/g	P	542±24 µg/g	Eu	0.024±0.008 µg/g
As	1.3±0.1 µg/g	Pb	156±4 µg/g	Gd	0.087±0.026 µg/g
Ba	25.6±1.9 µg/g	Rb	0.34±0.08 µg/g	Tb	0.016±0.006 µg/g
Be	0.12±0.02 µg/g	Sc	0.3±0.2 µg/g	Dy	0.063±0.019 µg/g
Bi	0.020±0.003 µg/g	Sb	0.04±0.01 µg/g	Er	0.042±0.015 µg/g
Br	0.5±0.1 µg/g	Se	0.019±0.008 µg/g	Yb	0.043±0.015 µg/g
Cd	0.03±0.01 µg/g	Sr	243±12 µg/g	Lu	0.007±0.003 µg/g
Cl	90±18 µg/g	Ta	0.030±0.015 µg/g	Y	0.42±0.09 µg/g
Co	0.19±0.04 µg/g	Te	0.007±0.004 µg/g	SiO ₂	8.25±0.06 %
Cr	6.0±3.8 µg/g	Th	0.15±0.02 µg/g	Al ₂ O ₃	0.10±0.02 %
Cs	0.08±0.02 µg/g	Ti	16±4 µg/g	Fe ₂ O ₃ (T)	0.057±0.003 %
Cu	1.8±0.5 µg/g	Tl	0.014±0.013 µg/g	MgO	18.00±0.11 %
F	581±49 µg/g	U	0.23±0.04 µg/g	CaO	33.07±0.09 %
Ga	0.24±0.05 µg/g	V	2.9±1.3 µg/g	Na ₂ O	0.026±0.007 %
Ge	0.68±0.29 µg/g	W	0.22±0.05 µg/g	K ₂ O	0.010±0.003 %
Hf	0.2±0.1 µg/g	Zn	10.5±1.5 µg/g	TiO ₂	0.003±0.001 %
Hg	0.003±0.001 µg/g	Zr	5.2±2.9 µg/g	MnO	0.027±0.001 %
Li	25.4±4.0 µg/g	La	0.8±0.1 µg/g	P ₂ O ₅	0.124±0.006 %
Mn	209±8 µg/g	Ce	1.3±0.2 µg/g	H ₂ O ⁺	1.83±0.16 %
Mo	0.22±0.08 µg/g	Pr	0.13±0.01 µg/g	FeO	0.030±0.006 %
Nb	0.2±0.1 µg/g	Nd	0.48±0.13 µg/g	L.O.I.	39.73±0.27 %
Ni	1.6±0.5 µg/g	Sm	0.090±0.024 µg/g		
New NIM-GBW07103	Rock - Constituents	70 g			
	Certified values				
Ag	0.033±0.010 µg/g	Ho	2.05±0.22 µg/g	Th	54±4 µg/g
As	2.1±0.5 µg/g	La	54±5 µg/g	Ti	1720±100 µg/g
B	24±4 µg/g	Li	131±7 µg/g	Tl	1.93±0.55 µg/g
Ba	343±45 µg/g	Lu	1.15±0.12 µg/g	Tm	1.06±0.11 µg/g
Be	12.4±2.1 µg/g	Mn	463±27 µg/g	U	18.8±2.2 µg/g
Bi	0.53±0.09 µg/g	Mo	3.5±0.3 µg/g	V	24±3 µg/g
Cd	0.029±0.014 µg/g	Nb	40±4 µg/g	W	8.4±0.7 µg/g
Ce	108±11 µg/g	Nd	47±5 µg/g	Y	62±7 µg/g
Cl	127±19 µg/g	Ni	2.3±1.2 µg/g	Yb	7.4±0.7 µg/g
Co	3.4±1.0 µg/g	P	405±30 µg/g	Zn	28±4 µg/g
Cr	3.6±1.1 µg/g	Pb	31±4 µg/g	Zr	167±14 µg/g
Cs	38.4±1.5 µg/g	Pr	12.7±0.8 µg/g	SiO ₂	72.83±0.15 %
Cu	3.2±1.3 µg/g	Rb	466±26 µg/g	Al ₂ O ₃	13.40±0.11 %
Dy	10.2±0.5 µg/g	S	380±43 µg/g	TFe ₂ O ₃	2.14±0.08 %
Er	6.5±0.4 µg/g	Sb	0.21±0.09 µg/g	FeO	1.02±0.06 %
Eu	0.85±0.10 µg/g	Sc	6.1±0.6 µg/g	MgO	0.42±0.05 %
F	2350±200 µg/g	Sm	9.7±1.2 µg/g	CaO	1.55±0.07 %
Ga	19±2 µg/g	Sn	12.5±2.0 µg/g	Na ₂ O	3.13±0.09 %
Gd	9.3±0.8 µg/g	Sr	106±9 µg/g	K ₂ O	5.01±0.10 %
Ge	2.0±0.3 µg/g	Ta	7.2±0.7 µg/g	H ₂ O ⁺	0.60±0.07 %
Hf	6.3±0.8 µg/g	Tb	1.65±0.13 µg/g		
Hg	0.0041±0.0016 µg/g	Te	0.021±0.005 µg/g		

Code	Product	Unit			
New NIM-GBW07104	Rock - Constituents	70 g			
	Certified values				
Ag	0.071±0.014 µg/g	Ho	0.34±0.03 µg/g	Te	0.017±0.004 µg/g
As	2.1±0.6 µg/g	In	0.037±0.010 µg/g	Th	2.6±0.4 µg/g
B	4.7±1.2 µg/g	La	22±3 µg/g	Ti	3090±140 µg/g
Ba	1020±70 µg/g	Li	18.3±1.4 µg/g	Tl	0.16±0.06 µg/g
Be	1.1±0.2 µg/g	Lu	0.12±0.04 µg/g	Tm	0.15±0.05 µg/g
Bi	0.081±0.025 µg/g	Mn	604±27 µg/g	U	0.90±0.28 µg/g
Cd	0.061±0.021 µg/g	Mo	0.54±0.14 µg/g	V	94±6 µg/g
Ce	40±4 µg/g	Nb	6.8±2.2 µg/g	Y	9.3±1.8 µg/g
Cl	46±15 µg/g	Nd	19±2 µg/g	Yb	0.89±0.20 µg/g
Co	13.2±1.5 µg/g	Ni	17±2 µg/g	Zn	71±7 µg/g
Cr	32±5 µg/g	P	1030±37 µg/g	Zr	99±16 µg/g
Cs	2.3±0.9 µg/g	Pb	11.3±2.8 µg/g	SiO ₂	60.62±0.22 %
Cu	55±4 µg/g	Pr	4.9±0.4 µg/g	Al ₂ O ₃	16.17±0.18 %
Dy	1.85±0.20 µg/g	Rb	38±5 µg/g	TFe ₂ O ₃	4.90±0.09 %
Er	0.85±0.16 µg/g	S	192±25 µg/g	FeO	2.39±0.11 %
Eu	1.02±0.07 µg/g	Sb	0.12±0.06 µg/g	MgO	1.72±0.08 %
F	280±39 µg/g	Sc	9.5±1.1 µg/g	CaO	5.20±0.11 %
Ga	18.1±2.1 µg/g	Sm	3.4±0.3 µg/g	Na ₂ O	3.86±0.11 %
Gd	2.7±0.4 µg/g	Sn	0.79±0.26 µg/g	K ₂ O	1.89±0.07 %
Ge	0.93±0.16 µg/g	Sr	790±54 µg/g	CO ₂	3.47±0.08 %
Hf	2.9±0.5 µg/g	Ta	0.40±0.09 µg/g	LOI	4.44±0.13 %
Hg	0.012±0.004 µg/g	Tb	0.41±0.07 µg/g		
New NIM-GBW07105	Rock - Constituents	70 g			
	Certified values				
Ag	0.040±0.012 µg/g	La	56±7 µg/g	Th	6.0±1.2 µg/g
B	3.5±1.4 µg/g	Li	9.5±1.3 µg/g	Ti	14200±610 µg/g
Ba	527±40 µg/g	Lu	0.19±0.07 µg/g	Tm	0.28±0.04 µg/g
Be	2.5±0.6 µg/g	Mn	1310±94 µg/g	U	1.4±0.4 µg/g
Bi	0.048±0.026 µg/g	Mo	2.6±0.3 µg/g	V	167±17 µg/g
Cd	0.067±0.024 µg/g	Nb	68±12 µg/g	W	0.4±0.2 µg/g
Ce	105±12 µg/g	Nd	54±5 µg/g	Y	22±5 µg/g
Cl	114±26 µg/g	Ni	140±11 µg/g	Yb	1.5±0.5 µg/g
Co	46.5±5.2 µg/g	P	4130±190 µg/g	Zn	150±15 µg/g
Cr	134±16 µg/g	Pb	7±4 µg/g	Zr	277±30 µg/g
Cu	49±4 µg/g	Pr	13.2±1.6 µg/g	SiO ₂	44.64±0.16 %
Dy	5.6±0.3 µg/g	Rb	37±6 µg/g	Al ₂ O ₃	13.83±0.20 %
Er	2.0±0.3 µg/g	S	100±20 µg/g	TFe ₂ O ₃	13.40±0.29 %
Eu	3.2±0.3 µg/g	Sb	0.08±0.05 µg/g	FeO	7.60±0.16 %
F	700±68 µg/g	Sc	15.2±1.8 µg/g	MgO	7.77±0.26 %
Ga	24.8±1.3 µg/g	Se	0.073±0.035 µg/g	CaO	8.81±0.14 %
Gd	8.5±0.7 µg/g	Sm	10.2±0.7 µg/g	Na ₂ O	3.38±0.07 %
Ge	0.98±0.23 µg/g	Sn	2.0±0.6 µg/g	K ₂ O	2.32±0.08 %
Hf	6.5±0.8 µg/g	Sr	1100±100 µg/g	H ₂ O ⁺	2.86±0.19 %
Hg	0.006±0.003 µg/g	Ta	4.3±0.6 µg/g		
Ho	0.88±0.05 µg/g	Tb	1.2±0.2 µg/g		
NCS DC73304	Rock - Constituents	70 g			
	Certified values				
Ag	0.062±0.010 µg/g	La	21±2 µg/g	Ti	1580±120 µg/g
As	9.1±1.8 µg/g	Li	11.1±0.7 µg/g	Tl	0.36±0.07 µg/g
B	34±8 µg/g	Lu	0.30±0.04 µg/g	Tm	0.32±0.05 µg/g
Ba	143±22 µg/g	Mn	155±10 µg/g	U	2.1±0.4 µg/g
Be	0.97±0.15 µg/g	Mo	0.76±0.21 µg/g	V	33±4 µg/g
Bi	0.18±0.04 µg/g	Nb	5.9±1.3 µg/g	W	1.2±0.3 µg/g
Cd	0.060±0.025 µg/g	Nd	21±3 µg/g	Y	21.5±3.3 µg/g
Ce	48±6 µg/g	Ni	16.6±1.6 µg/g	Yb	1.9±0.2 µg/g
Cl	44±9 µg/g	P	970±61 µg/g	Zn	20±3 µg/g
Co	6.4±0.8 µg/g	Pb	7.6±1.2 µg/g	Zr	214±13 µg/g
Cr	20±4 µg/g	Pr	5.4±0.7 µg/g	SiO ₂	90.36±0.20 %
Cs	1.8±0.4 µg/g	Rb	29±3 µg/g	Al ₂ O ₃	3.52±0.13 %
Cu	19±2 µg/g	S	860±40 µg/g	TFe ₂ O ₃	3.22±0.10 %
Dy	4.1±0.5 µg/g	Sb	0.60±0.16 µg/g	FeO	0.61±0.06 %
Er	2.0±0.4 µg/g	Sc	4.2±0.4 µg/g	MgO	0.082±0.031 %
Eu	1.02±0.12 µg/g	Se	0.08±0.03 µg/g	CaO	0.30±0.05 %
F	183±28 µg/g	Sm	4.7±0.4 µg/g	Na ₂ O	0.061±0.021 %
Ga	5.3±1.1 µg/g	Sn	1.1±0.2 µg/g	K ₂ O	0.65±0.04 %
Gd	4.5±0.5 µg/g	Sr	58±7 µg/g	H ₂ O ⁺	1.01±0.09 %
Ge	1.16±0.26 µg/g	Ta	0.38±0.03 µg/g	Org.C	(0.05) %
Hf	6.6±0.6 µg/g	Tb	0.79±0.13 µg/g	LOI	1.10±0.07 %
Hg	0.008±0.003 µg/g	Te	0.038±0.009 µg/g		
Ho	0.75±0.16 µg/g	Th	7.0±0.6 µg/g		

Rocks, ceramic materials and minerals

Code	Product	Unit			
New NIM-GBW07107	Rock - Constituents	70 g			
	Certified values				
Ag	0.047±0.013 µg/g	Ho	0.98±0.06 µg/g	Tb	1.02±0.11 µg/g
As	1.4±0.4 µg/g	In	0.082±0.022 µg/g	Th	12.8±1.4 µg/g
B	154±17 µg/g	La	62±5 µg/g	Ti	3950±190 µg/g
Ba	450±45 µg/g	Li	44±2 µg/g	Tl	0.71±0.11 µg/g
Be	3.0±0.4 µg/g	Lu	0.41±0.07 µg/g	Tm	0.43±0.04 µg/g
Bi	0.23±0.04 µg/g	Mn	173±17 µg/g	U	1.5±0.3 µg/g
Cd	0.033±0.017 µg/g	Mo	0.35±0.14 µg/g	V	87±6 µg/g
Ce	109±12 µg/g	Nb	14.3±2.5 µg/g	W	0.79±0.20 µg/g
Co	21±2 µg/g	Nd	48±4 µg/g	Y	26±3 µg/g
Cr	99±8 µg/g	Ni	37±4 µg/g	Yb	2.6±0.4 µg/g
Cs	14±2 µg/g	P	690±53 µg/g	Zn	55±6 µg/g
Cu	42±3 µg/g	Pb	8.7±2.7 µg/g	Zr	96±13 µg/g
Dy	5.1±0.5 µg/g	Pr	13.6±2.1 µg/g	SiO ₂	59.23±0.25 %
Er	2.7±0.4 µg/g	Rb	205±12 µg/g	Al ₂ O ₃	18.82±0.22 %
Eu	1.7±0.2 µg/g	Sb	0.17±0.10 µg/g	TFe ₂ O ₃	7.60±0.13 %
F	1290±100 µg/g	Sc	18.5±1.8 µg/g	FeO	1.39±0.08 %
Ga	26±4 µg/g	Se	0.078±0.023 µg/g	MgO	2.01±0.07 %
Gd	6.7±0.6 µg/g	Sm	8.4±0.6 µg/g	CaO	0.60±0.06 %
Ge	3.1±0.4 µg/g	Sn	2.0±0.5 µg/g	Na ₂ O	0.35±0.03 %
Hf	2.9±0.4 µg/g	Sr	90±11 µg/g	K ₂ O	4.16±0.15 %
Hg	0.010±0.003 µg/g	Ta	1.0±0.4 µg/g	H ₂ O ⁺	5.6±0.4 %
NCS DC73306	Rock - Constituents	70 g			
	Certified values				
Ag	0.043±0.017 µg/g	I	(0.2) µg/g	Th	4.1±0.7 µg/g
As	4.7±0.9 µg/g	In	(0.042) µg/g	Ti	1960±130 µg/g
B	16±4 µg/g	La	15±5 µg/g	Tl	0.35±0.16 µg/g
Ba	120±18 µg/g	Li	20±4 µg/g	Tm	0.17±0.04 µg/g
Be	0.8±0.2 µg/g	Lu	0.14±0.04 µg/g	U	1.9±0.4 µg/g
Bi	0.16±0.05 µg/g	Mn	434±41 µg/g	V	36±9 µg/g
Cd	0.07±0.03 µg/g	Mo	0.38±0.08 µg/g	W	0.67±0.28 µg/g
Ce	25±4 µg/g	Nb	6.6±2.4 µg/g	Y	9.1±2.5 µg/g
Cl	83±25 µg/g	Nd	12.0±1.4 µg/g	Yb	0.90±0.16 µg/g
Co	9±2 µg/g	Ni	18±3 µg/g	Zn	52±6 µg/g
Cr	32±8 µg/g	P	226±48 µg/g	Zr	62±20 µg/g
Cs	3.2±0.8 µg/g	Pb	18±4 µg/g	SiO ₂	15.60±0.09 %
Cu	23±3 µg/g	Pr	3.4±0.4 µg/g	Al ₂ O ₃	5.03±0.12 %
Dy	1.6±0.2 µg/g	Rb	32±5 µg/g	TFe ₂ O ₃	2.52±0.10 %
Eu	0.51±0.07 µg/g	S	370±160 µg/g	FeO	1.64±0.09 %
F	406±44 µg/g	Sb	0.43±0.16 µg/g	MgO	5.19±0.18 %
Ga	7.1±1.1 µg/g	Sc	6.0±1.7 µg/g	CaO	35.67±0.39 %
Gd	1.9±0.2 µg/g	Se	0.09±0.02 µg/g	K ₂ O	0.78±0.06 %
Ge	0.67±0.19 µg/g	Sm	2.4±0.3 µg/g	CO ₂	32.4±0.4 %
Hf	1.8±0.3 µg/g	Sr	913±84 µg/g	LOI	34.1±0.2 %
Hg	0.016±0.002 µg/g	Ta	0.42±0.09 µg/g		
Ho	0.33±0.06 µg/g	Tb	0.35±0.07 µg/g		
NCS DC71301	Rock - Constituents	100 g			
	Certified values				
As	6.27±0.45 µg/g	La	149±8 µg/g	W	1.24±0.12 µg/g
B	31.8±2.3 µg/g	Li	32.9±2.3 µg/g	Y	24.7±1.2 µg/g
Ba	251±12 µg/g	Lu	0.43±0.09 µg/g	Yb	2.56±0.10 µg/g
Be	17.2±1.5 µg/g	Mo	0.26±0.06 µg/g	Zn	112±3 µg/g
Bi	0.37±0.04 µg/g	Nb	66.9±4.0 µg/g	Al ₂ O ₃	17.72±0.07 %
Br	1.21±0.41 µg/g	Nd	65.1±4.1 µg/g	SiO ₂	54.48±0.06 %
Cd	0.07±0.02 µg/g	Ni	1.75±0.36 µg/g	Ti O ₂	0.48±0.02 %
Ce	242±10 µg/g	Pb	196±10 µg/g	Fe ₂ O ₃	6.04±0.05 %
Co	4.59±0.29 µg/g	Pr	22.5±1.8 µg/g	FeO	1.23±0.04 %
Cr	3.6±0.9 µg/g	Rb	130±5 µg/g	MnO	0.12±0.01 %
Cs	2.05±0.30 µg/g	Sb	0.15±0.02 µg/g	MgO	0.65±0.05 %
Cu	11.8±0.8 µg/g	Sc	2.22±0.24 µg/g	CaO	1.39±0.03 %
Dy	4.70±0.52 µg/g	Se	0.05±0.02 µg/g	Na ₂ O	7.16±0.06 %
Er	2.48±0.18 µg/g	Sm	9.7±0.7 µg/g	K ₂ O	7.48±0.07 %
Eu	2.35±0.09 µg/g	Sn	6.50±0.52 µg/g	H ₂ O ⁺	2.38±0.08 %
Ga	35.8±3.3 µg/g	Ta	1.96±0.16 µg/g	CO ₂	0.26±0.04 %
Gd	7.0±1.5 µg/g	Tb	1.02±0.07 µg/g	P ₂ O ₅	0.018±0.003 %
Ge	0.95±0.11 µg/g	Te	0.012±0.005 µg/g	F	0.048±0.004 %
Hf	34.0±4.6 µg/g	Th	79.3±3.4 µg/g	S	0.011±0.003 %
Hg	0.005±0.003 µg/g	Tl	0.76±0.08 µg/g	Cl	0.059±0.004 %
Ho	0.96±0.12 µg/g	Tm	0.46±0.06 µg/g	Fe ₂ O ₃ TR	7.41±0.04 %
I	0.14±0.04 µg/g	U	14.6±1.0 µg/g	Fe ₂ O ₃ TC	7.40 %
In	0.15±0.03 µg/g	V	179±5 µg/g	Others	0.48 %

Rocks, ceramic materials and minerals

Code	Product	Unit																																																																								
NCS DC71302	Rock - Constituents Certified values	100 g																																																																								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag 0.17±0.02 µg/g</td> <td style="width: 33%;">Li 17.5±1.0 µg/g</td> <td style="width: 33%;">Yb 3.15±0.10 µg/g</td> </tr> <tr> <td>As 5.96±0.83 µg/g</td> <td>Lu 0.49±0.04 µg/g</td> <td>Zn 164±4 µg/g</td> </tr> <tr> <td>B 10.8±1.3 µg/g</td> <td>Mo 0.95±0.08 µg/g</td> <td>Zr 335±18 µg/g</td> </tr> <tr> <td>Ba 1053±27 µg/g</td> <td>Nb 20.8±1.3 µg/g</td> <td>Al₂O₃ 16.1±0.1 %</td> </tr> <tr> <td>Be 3.64±0.54 µg/g</td> <td>Nd 47.2±2.5 µg/g</td> <td>SiO₂ 63.06±0.09 %</td> </tr> <tr> <td>Bi 0.09±0.03 µg/g</td> <td>Ni 12.6±0.9 µg/g</td> <td>Ti O₂ 0.80±0.02 %</td> </tr> <tr> <td>Cd 0.61±0.08 µg/g</td> <td>Pb 97.7±4.4 µg/g</td> <td>Fe₂O₃ 4.51±0.06 %</td> </tr> <tr> <td>Ce 117±7 µg/g</td> <td>Pr 13.2±0.6 µg/g</td> <td>FeO 0.19±0.04 %</td> </tr> <tr> <td>Co 7.9±0.4 µg/g</td> <td>Rb 183±7 µg/g</td> <td>MnO 0.089±0.002 %</td> </tr> <tr> <td>Cr 7.7±1.1 µg/g</td> <td>Sb 1.34±0.19 µg/g</td> <td>MgO 0.84±0.05 %</td> </tr> <tr> <td>Cs 7.16±0.45 µg/g</td> <td>Sc 7.52±0.43 µg/g</td> <td>CaO 2.47±0.03 %</td> </tr> <tr> <td>Cu 9.1±0.8 µg/g</td> <td>Se 0.03±0.02 µg/g</td> <td>Na₂O 3.06±0.04 %</td> </tr> <tr> <td>Dy 5.32±0.20 µg/g</td> <td>Sm 8.63±0.23 µg/g</td> <td>K₂O 5.17±0.04 %</td> </tr> <tr> <td>Er 2.93±0.14 µg/g</td> <td>Sn 3.12±0.26 µg/g</td> <td>H₂O⁺ 1.79±0.10 %</td> </tr> <tr> <td>Eu 1.96±0.07 µg/g</td> <td>Sr 318±8 µg/g</td> <td>CO₂ 1.03±0.03 %</td> </tr> <tr> <td>Ga 19.8±1.1 µg/g</td> <td>Ta 1.42±0.26 µg/g</td> <td>P₂O₅ 0.36±0.01 %</td> </tr> <tr> <td>Gd 6.54±0.40 µg/g</td> <td>Tb 0.99±0.07 µg/g</td> <td>F 0.112±0.005 %</td> </tr> <tr> <td>Ge 1.11±0.10 µg/g</td> <td>Th 16.7±0.6 µg/g</td> <td>S 0.023±0.003 %</td> </tr> <tr> <td>Hf 7.5±1.1 µg/g</td> <td>Tl 1.02±0.15 µg/g</td> <td>Cl 0.016±0.002 %</td> </tr> <tr> <td>Hg 0.014±0.003 µg/g</td> <td>Tm 0.50±0.04 µg/g</td> <td>Others 0.28 %</td> </tr> <tr> <td>Ho 1.10±0.10 µg/g</td> <td>U 3.04±0.28 µg/g</td> <td>O/F,S,Cl 0.062 %</td> </tr> <tr> <td>I 0.07±0.04 µg/g</td> <td>V 64.3±2.9 µg/g</td> <td>Fe₂O₃TR 4.77±0.03 %</td> </tr> <tr> <td>In 0.11±0.03 µg/g</td> <td>W 1.62±0.12 µg/g</td> <td>Fe₂O₃ TC 4.72 %</td> </tr> <tr> <td>La 62.5±2.5 µg/g</td> <td>Y 28.0±1.0 µg/g</td> <td></td> </tr> </table>	Ag 0.17±0.02 µg/g	Li 17.5±1.0 µg/g	Yb 3.15±0.10 µg/g	As 5.96±0.83 µg/g	Lu 0.49±0.04 µg/g	Zn 164±4 µg/g	B 10.8±1.3 µg/g	Mo 0.95±0.08 µg/g	Zr 335±18 µg/g	Ba 1053±27 µg/g	Nb 20.8±1.3 µg/g	Al ₂ O ₃ 16.1±0.1 %	Be 3.64±0.54 µg/g	Nd 47.2±2.5 µg/g	SiO ₂ 63.06±0.09 %	Bi 0.09±0.03 µg/g	Ni 12.6±0.9 µg/g	Ti O ₂ 0.80±0.02 %	Cd 0.61±0.08 µg/g	Pb 97.7±4.4 µg/g	Fe ₂ O ₃ 4.51±0.06 %	Ce 117±7 µg/g	Pr 13.2±0.6 µg/g	FeO 0.19±0.04 %	Co 7.9±0.4 µg/g	Rb 183±7 µg/g	MnO 0.089±0.002 %	Cr 7.7±1.1 µg/g	Sb 1.34±0.19 µg/g	MgO 0.84±0.05 %	Cs 7.16±0.45 µg/g	Sc 7.52±0.43 µg/g	CaO 2.47±0.03 %	Cu 9.1±0.8 µg/g	Se 0.03±0.02 µg/g	Na ₂ O 3.06±0.04 %	Dy 5.32±0.20 µg/g	Sm 8.63±0.23 µg/g	K ₂ O 5.17±0.04 %	Er 2.93±0.14 µg/g	Sn 3.12±0.26 µg/g	H ₂ O ⁺ 1.79±0.10 %	Eu 1.96±0.07 µg/g	Sr 318±8 µg/g	CO ₂ 1.03±0.03 %	Ga 19.8±1.1 µg/g	Ta 1.42±0.26 µg/g	P ₂ O ₅ 0.36±0.01 %	Gd 6.54±0.40 µg/g	Tb 0.99±0.07 µg/g	F 0.112±0.005 %	Ge 1.11±0.10 µg/g	Th 16.7±0.6 µg/g	S 0.023±0.003 %	Hf 7.5±1.1 µg/g	Tl 1.02±0.15 µg/g	Cl 0.016±0.002 %	Hg 0.014±0.003 µg/g	Tm 0.50±0.04 µg/g	Others 0.28 %	Ho 1.10±0.10 µg/g	U 3.04±0.28 µg/g	O/F,S,Cl 0.062 %	I 0.07±0.04 µg/g	V 64.3±2.9 µg/g	Fe ₂ O ₃ TR 4.77±0.03 %	In 0.11±0.03 µg/g	W 1.62±0.12 µg/g	Fe ₂ O ₃ TC 4.72 %	La 62.5±2.5 µg/g	Y 28.0±1.0 µg/g		
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NRCCACB-1	Calcium carbonate - Lead and cadmium Certified values	2.5 g																																																																								
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NIST-69b	Bauxite, Arkansas - Constituents Certified values	60 g																																																																								
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Clays

Code	Product	Unit
NIST-600	Bauxite, Australian - Constituents Certified values	90 g
	Al ₂ O ₃ 40.0 % MnO 0.013 % V ₂ O ₅ 0.060 % CaO 0.22 % Na ₂ O 0.022 % ZnO 0.003 % Cr ₂ O ₃ 0.024 % P ₂ O ₅ 0.039 % ZrO ₂ 0.060 % Fe ₂ O ₃ 17.0 % SO ₃ 0.155 % LOI* 20.5 % K ₂ O 0.23 % SiO ₂ 20.3 % MgO 0.055 % TiO ₂ 1.31 % LOI* Loss on Ignition	
NIST-696	Bauxite, Surinam - Constituents Certified value	60 g
	Al ₂ O ₃ 54.5 % MgO 0.012 % TiO ₂ 2.64 % CaO 0.018 % MnO 0.004 % V ₂ O ₅ 0.072 % Cr ₂ O ₃ 0.047 % P ₂ O ₅ 0.050 % ZnO 0.0014 % Fe ₂ O ₃ 8.70 % SiO ₂ 3.79 % ZrO ₂ 0.14 % K ₂ O 0.009 % SO ₃ 0.15 % LOI* 29.9 % Indicative values for Co, BaO, Na ₂ O LOI* Loss on Ignition	
NIST-697	Bauxite, Dominican - Constituents Certified value	60 g
	Al ₂ O ₃ 45.8 % MgO 0.18 % TiO ₂ 2.52 % CaO 0.71 % MnO 0.41 % V ₂ O ₅ 0.063 % Cr ₂ O ₃ 0.100 % P ₂ O ₅ 0.97 % ZnO 0.037 % Fe ₂ O ₃ 20.0 % SiO ₂ 6.81 % ZrO ₂ 0.065 % K ₂ O 0.062 % SO ₃ 0.077 % LOI* 22.1 % Indicative values for Co, BaO, Na ₂ O LOI* Loss on Ignition	
NIST-698	Bauxite, Jamaican - Constituents Certified value	60 g
	Al ₂ O ₃ 48.2 % MgO 0.058 % TiO ₂ 2.38 % CaO 0.62 % MnO 0.38 % V ₂ O ₅ 0.064 % Cr ₂ O ₃ 0.080 % P ₂ O ₅ 0.37 % ZnO 0.029 % Fe ₂ O ₃ 0.013 % SiO ₂ 0.69 % ZrO ₂ 0.0061 % K ₂ O 0.010 % SO ₃ 0.143 % LOI* 27.3 % Indicative values for Co, BaO, Na ₂ O LOI* Loss on Ignition	

Clays

Code	Product	Unit
BCR-461	Clay - Fluorine Certified value	30 g
	F 568 mg/kg ± 60 mg/kg	
NIST-97b	Flint clay - Constituent elements Collected from a stockpile near a mine on Anderson Creek, Pike Township, Clearfield County, Pennsylvania, USA.	60 g
	Certified values	
	Al 20.76 % K 0.513 % Na 0.0492 % Ca 0.0249 % Li 0.055 mg/kg Si 19.81 % Cr 0.227 % Mg 0.113 % Sr 0.0084 % Fe 0.831 % Mn 0.0047 % Ti 1.43 % Indicative values for Ba, Cs, Co, Eu, Hf, P, Rb, Sb, Sc, Th, Zn, Zr, LOI*	
NIST-98b	Plastic clay - Constituent elements Collected from the underclay of the Clarion coal bed at a plant in Clearfield County, Pennsylvania, USA.	60 g
	Certified values	
	Al 14.3 % K 2.81 % Na 0.1496 % Ca 0.0759 % Li 215 mg/kg Si 26.65 % Cr 119 mg/kg Mg 0.358 % Sr 189 mg/kg Fe 1.18 % Mn 116 mg/kg Ti 0.809 % Indicative values for Ba, Co, Cs, Eu, Hf, P, Rb, Sb, Sc, Th, Zn, Zr, LOI*	
NIST-679	Brick clay - Constituents Collected from an inactive clay pit in Beltsville, Maryland, USA.	75 g
	Certified values	
	Al 11.01 % Fe 9.05 % Na 0.1304 % Ba 432.2 µg/g K 2.433 % Si 24.34 % Ca 0.1628 % Li 71.7 µg/g Sr 73.4 µg/g Cr 109.7 µg/g Mg 0.7552 % Ti 0.577 % Indicative values for Ce, Co, Cs, Eu, Hf, Mn, P, Rb, Sc, Th, Zn	

Code	Product	Unit
BAS-BCS-CRM 348	Ball clay	100 g
	Certified values	
	SiO ₂ 51.1 %	MgO.....0.3 %
	Al ₂ O ₃ 31.6 %	Na ₂ O.....0.34 %
	TiO ₂1.08 %	K ₂ O.....2.23 %
	Fe ₂ O ₃ 1.04 %	P ₂ O ₅0.071 %
	CaO0.17 %	ZrO ₂(0.03) %
		S(0.1) %
		L.O.I. 11.8 %
		BaO.....(0.04) %
		Cr ₂ O ₃0.016 %
		C(1.64) %
	(Values in parenthesis are indicative values)	
NCS DC60102	Clay - Constituents	50 g
	Certified values	
	Al ₂ O ₃ 26.27 %	MgO.....0.46 %
	CaO 0.13 %	MnO.....0.052 %
	Cl 0.0041 %	Na ₂ O.....0.060 %
	Fe ₂ O ₃ 10.55 %	P ₂ O ₅0.14 %
	K ₂ O 0.79 %	SiO ₂49.98 %
	Indicative values for CO ₂ , FeO, H ₂ O ⁺	SO ₃ 0.49 %
	* Loss On Ignition	TiO ₂0.70 %
		L.O.I.* 10.62 %
NCS DC60104	Clay - Constituents	50 g
	Certified values	
	Al ₂ O ₃ 31.32 %	MgO.....0.083 %
	CaO 1.80 %	MnO.....0.020 %
	Cl 0.0029 %	Na ₂ O.....2.55 %
	Fe ₂ O ₃ 0.33 %	P ₂ O ₅0.053 %
	K ₂ O 1.15 %	SiO ₂53.67 %
	Indicative values for CO ₂ , FeO, H ₂ O ⁺	SO ₃0.023 %
		TiO ₂0.030 %
		L.O.I.* 8.81 %
NCS DC60105	Clay - Constituents	60 g
	Certified values	
	Al ₂ O ₃ 13.28 %	K ₂ O.....2.50 %
	CaO 3.23 %	MgO.....1.84 %
	Cl 0.011 %	MnO.....0.088 %
	CO ₂ 1.66 %	Na ₂ O.....1.81 %
	Fe ₂ O ₃ 4.64 %	P ₂ O ₅0.106 %
	Indicative values for FeO, H ₂ O ⁺	SiO ₂ 66.64 %
	* Loss On Ignition	SO ₃ 0.027 %
		TiO ₂0.66 %
		L.O.I.* 5.10 %