

UNLV Standard Number	Mineral Name	SiO2	Al2O3	CaO	MnO	MgO	Na2O	K2O	Fe2O3	FeO	All Fe as FeO	TiO2	SO3	Cr2O3	NiO	SrO	P2O5	CO2	PbO	F	Cl	Total	Total Fe as FeO		
UNLV-1	Al	Metal	99.90																				99.90	99.90	
UNLV-2	Be	99.50																						99.50	99.50
UNLV-3	B	99.80																						99.80	99.80
UNLV-4	Cd	100.00																						100.00	100.00
UNLV-5	Cr	100.00																						100.00	100.00
UNLV-6	Co	100.00																						100.00	100.00
UNLV-7	C	99.90																						99.90	99.90
UNLV-8	Cu	100.00																						100.00	100.00
UNLV-9	Ge	100.00																						100.00	100.00
UNLV-10	Au	99.90																						99.90	99.90
UNLV-11	In	100.00																						100.00	100.00
UNLV-12	Ir	99.90																						99.90	99.90
UNLV-13	Fe	100.00																						100.00	100.00
UNLV-14	Pb	100.00																						100.00	100.00
UNLV-15	Mn	99.90																						99.90	99.90
UNLV-16	Mo	99.90																						99.90	99.90
UNLV-17	Mg	99.80																						99.80	99.80
UNLV-18	Ni	100.00																						100.00	100.00
UNLV-19	Nb	99.80																						99.80	99.80
UNLV-20	Pd	99.90																						99.90	99.90
UNLV-21	Pt	99.90																						99.90	99.90
UNLV-22	Rh	99.99																						99.99	99.99
UNLV-23	Si	99.90																						99.90	99.90
UNLV-24	SiO2	100.0																						100.00	100.00
UNLV-25	Ag	100.00																						100.00	100.00
UNLV-26	Ta	99.95																						99.95	99.95
UNLV-27	Sb	99.99																						99.99	99.99
UNLV-28	Sn	100.00																						100.00	100.00
UNLV-29	Ti	99.80																						99.80	99.80
UNLV-30	W	99.98																						99.98	99.98
UNLV-31	V	99.50																						99.50	99.50
UNLV-32	Y	99.90																						99.90	99.90
UNLV-33	Zn	100.00																						100.00	100.00
UNLV-34	Zr	99.99																						99.99	99.99
UNLV-35	Bi	100.00																						100.00	100.00
UNLV-36	Hf	99.50																						99.50	99.50
UNLV-37	Siderite				2.95				59.08	59.08								37.88						99.91	99.91
UNLV-38	Dolomite			30.56		22.04												46.93						99.53	99.53
UNLV-39	Calcite			56.10														44.01						100.11	100.11

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UNLV-40	Strontianite			1.90												67.67		30.23				99.80	99.80
UNLV-41	Dolomite			30.43	0.03	21.78				0.08	0.08							47.36				99.68	99.68
UNLV-42	Kaersutite	39.60	14.78	10.42	0.12	12.42	2.82	1.43	12.34	0.72	11.81	5.19										99.84	98.59
UNLV-43	Hornblende	40.37	14.90	10.30	0.09	12.80	2.60	2.05	3.30	7.95	10.92	4.72										99.08	98.75
UNLV-44	Almandine	38.41	22.50	1.74	2.18	8.34	0.12		1.19	25.45	26.52	0.05		0.04								100.02	99.90
UNLV-45	Pyrope	41.46	23.73	5.17	0.28	18.51				10.67	10.67	0.47										100.29	100.29
UNLV-46	Anorthoclase	66.44	20.12	0.87			9.31	2.35		0.20	0.20											99.29	99.29
UNLV-47	Plagioclase	51.25	30.91	13.64	0.01	0.14	3.45	0.18	0.34	0.15	0.46	0.05										100.12	100.09
UNLV-48	Albite	68.08	19.78	0.24			11.44	0.27	0.09		0.08											99.90	99.89
UNLV-49	Microcline	64.24	18.30		0.04	0.03	1.30	15.14		0.04	0.04	0.01										99.10	99.10
UNLV-50	Forsterite	41.89		0.03	0.13	49.36	0.01		9.81		8.82				0.43							101.66	100.67
UNLV-51	Olivine	40.81		0.05	0.14	49.42				9.55	9.55				0.37							100.34	100.34
UNLV-52	Cr Augite	50.48	8.03	17.30	0.12	17.32	0.84	0.01	1.04	3.77	4.70	0.51		0.85								100.27	100.16
UNLV-53	Chromite		9.92	0.12	0.11	15.20				13.04	13.04			60.50								98.89	98.89
UNLV-54	Ilmenite				4.77	0.31			11.60	36.10	46.53	45.70										98.48	97.31
UNLV-55	Hematite			0.06	0.01				95.81	2.61	88.74	2.09		0.03								100.61	90.93
UNLV-56	Magnetite								67.50	30.20	90.88				0.37							98.07	91.25
UNLV-57	Gahnite	55.33		0.37						1.97	1.97				ZnO	42.49						100.16	100.16
UNLV-58	Sillimanite	37.10	62.90																			100.00	100.00
UNLV-59	Corundum	99.99																				99.99	99.99
UNLV-60	Quartz	100.0																				100.00	100.00
UNLV-61	Apatite	0.34	0.07	54.02	0.01	0.01	0.23	0.01	0.06		0.05		0.37	As2O3	0.09	0.07	40.78	0.05				96.11	96.10
UNLV-62	Omphacite	55.42	8.89	13.75	0.10	11.57	5.00	0.15	1.35	3.41	4.62	0.37										100.01	99.87
UNLV-63	Enstatite	57.90	1.85	0.11		40.00				0.13	0.13											99.99	99.99
UNLV-64	Teckite Glass	75.75	11.34	2.66	0.11	1.51	1.06	1.88	0.64	4.32	4.90	0.50										99.77	99.71
UNLV-65	VG-2 Glass	50.81	14.06	11.12	0.22	6.71	2.62	0.19	2.23	9.83	11.83	1.85					0.20					99.84	99.61
UNLV-66	VG-568 Glass	76.71	12.06	0.50	0.03	0.10	3.75	4.89	0.48	0.80	1.23	0.12					0.01					99.45	99.40
UNLV-67	VG-A99 Glass	50.94	12.49	9.30	0.15	5.08	2.66	0.82	1.87	11.62	13.30	4.06					0.38					99.37	99.18
UNLV-68	Biotite	34.34	14.83		1.29	6.10	0.09	9.37	7.28	19.66	26.20	2.69										95.65	94.91
UNLV-69	Muscovite	44.72	36.00		0.05	0.43	0.50	10.81		1.74	1.74	0.15										94.40	94.40
UNLV-70	Benitoite	43.75										19.35			BaO	37.05						100.15	100.15
UNLV-71	Rhodonite	44.86	0.03	3.96	38.99	0.21				11.38	11.38	0.01			ZnO	0.21						99.65	99.65
UNLV-72	Wollastonite	50.92		47.99						0.06	0.06											98.97	98.97
UNLV-73	Strontium Titanate											43.54				56.46						100.00	100.00
UNLV-74	Zircon	33.57								0.01	0.01				ZrO2	65.93	HfO2	1.27				100.78	100.78
UNLV-75	Sphene	28.91	1.29	28.87	0.03					0.64	0.64	39.04			H2O	1.22						100.00	100.00
UNLV-76	Jadeite	59.38	24.39	0.61		0.37	14.79	0.01		0.23	0.23	0.03										99.81	99.81
UNLV-77	Orthoclase	64.30	19.90	0.24			3.70	11.40														99.54	99.54

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UNLV-78	Beryl	65.24	18.45	0.10		0.11	0.40	0.03		0.40	0.40	0.23	BeO	13.57									98.53	98.53
UNLV-79	Aluminium Oxide		99.80																				99.80	99.80
UNLV-80	Chromium Oxide													99.70									99.70	99.70
UNLV-81	Ferric Oxide									99.90	99.90												99.90	99.90
UNLV-82	Cuprite	0.44												Cu2O	99.56								100.00	100.00
UNLV-83	Thorium Oxide													ThO2	99.90								99.90	99.90
UNLV-84	Ferrous Oxide								99.90		89.81												99.90	89.81
UNLV-85	Magnesium Oxide					#####																	100.00	100.00
UNLV-86	Nickel Oxide														99.80								99.80	99.80
UNLV-87	Lead Oxide																			99.90			99.90	99.90
UNLV-88	Titanium Monoxide														TiO	99.90							99.90	99.90
UNLV-89	As																	As	100.0				100.00	100.00
UNLV-90	Gallium Arsenide														Ga	48.20	As	51.80					100.00	100.00
UNLV-91	Potassium Chloride							52.45														47.55	100.00	100.00
UNLV-92	Sodium Chloride						39.34															60.66	100.00	100.00
UNLV-93	Mercury Sulphide												13.78	Hg	86.22								100.00	100.00
UNLV-94	Cadmium Sulphide												22.20	Cd	77.80								100.00	100.00
UNLV-95	Lead Sulphide												13.40							86.60			100.00	100.00
UNLV-96	Zinc Sulphide												67.10	Zn	32.90								100.00	100.00
UNLV-97	Chalcocite	0.18										19.18		Cu	79.95								99.31	99.31
UNLV-98	Chalcopyrite	0.21							30.45	30.45		34.93		Cu	34.44								100.03	100.03
UNLV-99	Pyrite								46.40	46.40		53.41	Cu	0.05	Co	0.10	As	0.04					100.00	100.00
UNLV-100	Apatite	0.90		53.30								CeO	0.89	LaO	0.32			40.95		0.04	3.55	0.02	99.97	99.97
UNLV-101	Baryte								0.06	0.06			34.16	BaO	65.39			0.03		0.09			99.73	99.73
UNLV-102	Anhydrite		41.14										58.93										100.07	100.07
UNLV-103	Celestine	1.65		0.08								41.67	BaO	3.60	52.56								99.56	99.56
UNLV-104	Fluorite			51.33																	48.67		100.00	100.00
UNLV-105	Lead Flouride	REE																	84.24	15.66			99.90	99.90
UNLV-106	Ce PO4	59.60																40.40					100.00	100.00
UNLV-107	Dy PO4	63.11																36.89					100.00	100.00
UNLV-108	Er PO4	63.78																36.22					100.00	100.00
UNLV-109	Eu PO4	61.54																38.46					100.00	100.00
UNLV-110	Gd PO4	62.34																37.66					100.00	100.00
UNLV-111	Ho PO4	63.45																36.55					100.00	100.00
UNLV-112	La PO4	59.39																40.61					100.00	100.00
UNLV-113	Lu PO4	64.81																35.19					100.00	100.00
UNLV-114	Nd PO4	60.30																39.70					100.00	100.00
UNLV-115	Pr PO4	59.73																40.27					100.00	100.00

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UNLV-116	Sm PO4	61.28															38.72					100.00	100.00
UNLV-117	Sc PO4	32.12															67.88					100.00	100.00
UNLV-118	Tb PO4	62.59															37.41					100.00	100.00
UNLV-119	Tm PO4	64.01															35.99					100.00	100.00
UNLV-120	Yb PO4	64.56															35.44					100.00	100.00
UNLV-121	Y PO4	48.35	Au	Ag	Cu												51.65					100.00	100.00
UNLV-122	Au100		100.0																			100.00	
UNLV-123	Au80-Ag20		80.00	19.90																		99.90	
UNLV-124	Au60-Ag40		60.00	39.90																		99.90	
UNLV-125	Au40-Cu60		40.00	59.90																		99.90	
UNLV-126	Au20-Ag80		22.40	77.50																		99.90	
UNLV-127	Ag100			100.0																		100.00	
UNLV-128	Au100		100.0																			100.00	
UNLV-129	Au80-Cu20		80.10		19.80																	99.90	
UNLV-130	Au60-Cu40		60.30		39.60																	99.90	
UNLV-131	Au40-Cu60		40.10		59.90																	100.00	
UNLV-132	Au20-Cu80		20.10		79.80																	99.90	
UNLV-133	Cu100				100.0																	100.00	
UNLV-134	Soda Glass	70.50		11.60			8.70	7.70					0.20				Sb2O2	1.10				99.80	
UNLV-135	Stainless Steel	0.50			1.64		Cu	0.17	64.69	64.69			0.02	18.40	12.20	Mo	2.38		0.00			100.00	
UNLV-136	50 ppm TEG	72.00	2.00	12.00			14.00						SEE BELOW									100.00	
UNLV-137	U Glass	58.88	14.02	22.48					0.01	0.01							U3O8	4.54				99.93	
UNLV-138	500 ppm TEG	72.00	2.00	12.00			14.00						SEE BELOW									100.00	

	B	Ba	Ce	Eu	Co	Cu	Gd	Dy	Er	Au	La	Pb	Fe	Mn	K	Nd	Ni	Rb	Sm	Ag	
UNLV-136	50 ppm TEG	32.0	41.0	39.0	36.0	35.5	37.7	39.0	35.0	39.0	5.0	36.0	38.6	51.0	39.6	64.0	36.0	38.8	31.4	39.0	22.0
UNLV-138	500 ppm TEG	351.0	-	-	-	390.0	444.0	-	-	-	25.0	-	426.0	458.0	485.0	461.0	-	458.7	425.7	-	254.0

	Sr	Tl	Th	U	Yb	Ti	Zn
UNLV-136	50 ppm TEG	78.4	15.7	37.8	37.4	42.0	50.1
UNLV-138	500 ppm TEG	515.5	61.8	457.2	461.5	-	437.0