

111.2 - Ores (powder form)

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 >>	25d Manganese Ore	69b Bauxite (Arkansas)	120c Phosphate Rock (Florida)	180 High Grade-Fluorspar	183 Lithium Ore (Lepidolite)	277 Tungsten Concentrate	330a Copper Ore Mill Heads	331a Copper Ore Mill Tails	423 Molybdenum Oxide Concentrate (Powder Form)	600 Bauxite, Australian-Darling	670 Rutile Ore	690 Iron Ore Concentrate (Canada)	691 Reduced Iron Oxide	692 Iron Ore (Labrador)	693 Iron Ore (Nimba)	694 Phosphate Rock, Western	696 Bauxite, Surinam	697 Bauxite, Dominican	698 Bauxite, Jamaican	886 Refractory Gold Ore	1835 Borate Ore	2430 Scheelite Ore
Unit Size >>	60 g	60 g	90 g	120 g	45 g	1 bottle x 100 g	1 bottle x 90 g	40 g	1 pouch x 50 g	90 g	90 g	100 g	100 g	100 g	100 g	90 g	60 g	60 g	60 g	200 g	60 g	100 g
(Concentrations are in mass fractions, in %, unless noted by an asterisk for mg/kg.)																						
Aluminum							7.053	7.92														(0.4)
Aluminum oxide	5.33	48.8	1.30							40.0		0.175	1.215	1.428	1.043	1.8	54.5	45.8	48.2		3.474	
Antimony						<0.01			(0.0024)													<0.005
Arsenic						0.0120							(0.0014)	0.0045	0.0012							0.0022
Barium							0.156	259*									(0.004)	(0.015)	(0.008)			0.0497
Barium oxide	(0.21)	(0.008)																				
Bismuth						(0.05)			(0.006)													0.080
Boron oxide																						18.739
Cadmium			0.0010				3.391*	(0.1)					<0.0005			0.015						
Calcium						0.38	0.323	1.552														
Calcium fluoride				98.80																		
Calcium oxide	(0.052)	0.13	48.02							0.22		0.2004	0.640	0.0224	0.0158	43.6	0.018	0.71	0.62		21.622	19.44
Carbon			3.27					565*	(0.025)				0.12								(5.7)	
Cerium		(0.024)					22.32*	9.6*									(0.0041)	(0.069)	(0.030)			
Chromium							77.0*	13.9*	(0.0034)			0.0030	0.0256	0.0019	0.0048							
Chromium oxide		0.011								0.024	0.23					(0.10)	0.047	0.100	0.080			
Cobalt		(0.0001)					4.542*	12.6*					0.0317	0.0010			(0.00009)	(0.0013)	(0.0045)			
Copper						(0.014)	0.845	789*	0.0640				0.0309	0.0045								0.0086
Fluorine			3.82																			0.348
Gallium							17.4*	16.3*														1.3
Gold								0.121*													8.25*	
Iron					4.12	7.47	1.06	4.207*	1.708			66.87	84.73	59.61	65.08							1.13
Iron oxide	3.91	7.14	1.08							17.0	0.86					0.79	8.70	20.0	19.6		1.141	
Lead						0.0676	(27*)	(6)	0.0433					<0.002								
Lithium							22.19*	(3*)														
Lithium oxide																						
Loss on Ignition-See certificate for conditions		27.2								20.5							29.9	22.1	27.3			25.724
Magnesium							0.868	1.623	(0.10)													(0.5)
Magnesium oxide		0.085	0.32							0.05		0.1778	0.517	0.0361	0.0143	0.33	0.012	0.18	0.058		3.411	
Manganese	51.78					10.2		497*	(0.009)													0.1178
Manganese oxide		0.110	0.027							0.013		0.2306	0.0428	0.4580	0.0900	0.0116	0.004	0.41	0.38		0.0333	
Mercury								0.00184*														
Molsture	(1)																					
Molybdenum						0.0598	(4.5*)	3.2*	58.61				<0.002									0.22
Nickel							28.95*	8.1*					0.269	0.0007	0.0009							
Niobium						1.018	(5.7*)						0.0007									<0.02
Nitrogen													(0.005)									
Oxygen, available	14.283					22.0																
Phosphorus						0.034	(326*)	(550)				0.0098	0.0052	0.0387	0.0563							(0.02)
Phosphorus pentoxide	0.251	0.118	33.34							0.039						30.2	0.050	0.97	0.37			
Potassium							5.47	0.967					0.0656									1.261
Potassium oxide	0.928	0.068	0.147							0.23		0.00303		0.0399	0.00283	0.51	0.009	0.062	0.010			0.179
Rhenium									(0.004)													
Scandium							5.693*	11.4*														
Silicon						0.842	33.4															1.74
Silicon dioxide	2.54	13.43	5.5							20.3	0.51	3.700	3.66	10.177	3.860	11.2	3.79	6.81	0.69			18.408
Silver									(0.0029)													
Sodium							0.657	3.15	(0.2)													0.018
Sodium oxide	(0.025)	0.52								0.022		0.00274	0.1775	0.0077	0.0023	0.86	(0.007)	(0.036)	(0.015)			3.484
Strontium							218.1*															
Strontium oxide																						0.9418
Sulfur						0.2668		870*	(0.063)			0.004	0.009	0.005	0.005						1.466	0.25
Sulfur trioxide		0.551								0.155							0.150	0.0770	0.143			1.477
Tantalum						(0.14)																(0.06)
Thorium							(7.6*)															
Tin						0.53							<0.001									
Titanium						2.20	(1223*)	0.228														
Titanium dioxide	0.136	1.90	0.103							1.31	96.16	0.0217	0.275	0.0449	0.0345	(0.11)	2.64	2.52	2.38			0.1332
Tungsten													0.059									
Tungsten trioxide						67.50																70.30
Uranium																						
Uranium Oxide (U ₃ O ₈)			0.0135																			
Vanadium							(43*)	121*	(0.0023)			0.0045	0.0154	0.0049	0.0043							
Vanadium pentoxide		0.028	0.016							0.060	0.66						0.31	0.072	0.063	0.064		
Yttrium							20.01*															
Zinc							94.9*	71.8*	(0.017)				(0.004)									
Zinc oxide		0.0035								0.003						(0.19)	0.0014	0.037	0.029			
Zirconium						<0.8	80.5*						0.0015	0.0026	0.0009							
Zirconium dioxide		0.29								0.060	0.84						0.14	0.065	0.061			

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