

Table VI-7. Average compositions of cratonic shales, the enrichment factors of elements (E_{Al}^i) for shales relative to juvenile upper continental crusts of the same age, and E_{Al}^i [phanerozoic shale/average present-day upper continental crust] (Condie, 1993).

	Archean	Proterozoic	Phanerozoic	E_{Al}^i [shale/juvenile crust]			E_{Al}^i [phan. shale/ave. crust]
	>3.5-2.5 Ga	2.5-0.8 Ga	0.8-0 Ga	Archean	Proterozoic	Phanerozoic	
SiO ₂ %	60.95	63.1	63.6	0.77	0.82	0.83	0.81
TiO ₂	0.62	0.64	0.82	1.19	0.87	1.04	1.25
Al ₂ O ₃	17.5	17.5	17.8	1	1	1	1
FeO	7.53	5.65	5.89	1.42	1.01	1.01	1.05
MgO	3.88	2.2	2.3	1.09	0.88	0.88	0.8
CaO	0.64	0.71	1.3	0.15	0.17	0.29	0.3
Na ₂ O	0.68	1.06	1.1	0.16	0.28	0.28	0.26
K ₂ O	3.07	3.62	3.84	1.03	1.03	1.16	1.18
P ₂ O ₅	0.1	0.12	0.14	0.77	0.73	0.85	0.98
Rb ppm	111	165	163	1.29	1.52	1.51	1.65
Sr	61	108	136	0.18	0.32	0.43	0.4
Ba	456	642	551	0.68	0.79	0.68	0.73
Pb	13	27	22	0.61	1.36	1.17	1.09
Th	8.5	14.3	13.5	0.9	1.32	1.29	1.32
U	2.4	3.4	2.9	0.97	1.21	1.03	1.1
Zr	151	196	201	0.86	0.97	1.02	1.05
Hf	4.5	5.2	4.6	0.98	0.91	0.87	0.9
Nb	11.3	16.8	15.4	1.13	1.27	1.13	1.32
Ta	0.84	1.4	1.4	1.01	1.36	1.33	1.49
Y	28	35	33	1.32	1	0.94	1.16
La	30.7	38	38.8	0.88	1.14	1.3	1.15
Ce	60.9	81.7	82	0.91	1.18	1.24	1.2
Nd	27.7	37.5	32.3	0.94	1.2	1.09	1.06
Sm	4.85	6.68	5.75	1.03	1.09	0.98	1.05
Eu	1.12	1.32	1.14	0.96	0.97	0.95	0.91
Gd	4.55	5.6	5.22	1.09	0.98	0.94	1.04
Tb	0.71	0.9	0.81	1.11	1	0.93	1.03
Yb	2.43	2.86	2.95	1.34	1.09	1.09	1.3
Lu	0.39	0.48	0.47	1.26	1.14	0.98	1.23
Sc	21	17	16	1.63	0.92	0.88	1.01
V	154	100	117	1.81	0.88	0.92	1.14
Cr	507	115	104	2.31	1.61	1.74	0.84
Co	31	18	20	1.25	0.91	1.07	0.93
Ni	221	52	54	1.78	1.35	1.64	0.81