

## Granite

Oxides	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	Total	
wt. % oxide	71.30	0.31	14.32	1.21	1.64	0.05	0.71	1.84	3.68	4.07	0.12	99.25	
molecular wt. of oxide	60	80	102	160	72	71	40	56	62	94	142		
mol. prop. oxide	1.190	.0038	.1404	.00756	.0235	0.0	.0177	.0329	.0594	.04330	8.45E-4	M.W.	Norm
Q (S)	.4842											60	29.05
Or (KAS <sub>6</sub> )	.2598		.0433							.0433		556	24.07
Ab (NAS <sub>6</sub> )	.3564		.0594						.0594			524	31.10
An (CAS <sub>2</sub> )	.0600		.0300					.0300				278	8.34
Lc (KAS <sub>4</sub> )												436	
Ne (NAS <sub>2</sub> )												284	
C (A)			.0077									102	0.78
Ac (NF <sup>3+</sup> S <sub>4</sub> )												462	
Di(wo) (CS)												116	
Di(en) (MS)												100	
Di(fs) (F <sup>2+</sup> S)												132	
Wo (CS)												116	
Hy(en) (MS)	.0177						.0177					100	1.77
Hy(fs) (F <sup>2+</sup> S)	.0121				.0121							132	1.60
Ol(fo) (M <sub>2</sub> S)												140	
Ol(fa) (F <sup>2+</sup> <sub>2</sub> S)												204	
Mt (F <sup>2+</sup> F <sup>3+</sup> )				.00756	.00756							232	1.75
He (F <sup>3+</sup> )												160	
Il (F <sup>2+</sup> T)		.0038			.0038							152	0.58
Ap (C <sub>3,33</sub> P)								.0029			8.45E-4	310	0.26
TOTALS	1.19	.0038	.1404	.00756	.0235	0.0	.0177	.0329	.0594	.0433	8.45E-4		99.3

RULE 6:  $MgO/MgO+FeO=0.0178/(0.0178+0.0121)=0.595$