

Norm Calculation Example

Analysis Title		Average Crust											
Date		6-Feb-92											
Oxide	Wt. %	GFW	Mole #	Ap	Il	Or	Ab	An	Mt	Wo	En	Fs	Qz
SiO2	60.00	60.085	0.99859			.19745	.36787	.11168		.03510	.08682	.01844	.18123
TiO2	1.20	79.899	0.01502		.01502								
Al2O3	15.30	101.961	0.15006			.03291	.06131	.05584					
Fe2O3	3.10	159.692	0.01941						.01941				
FeO	3.80	71.876	0.05287		.01502				.01941			.01844	
MnO	0.00	70.937	0.00000										
MgO	3.50	40.311	0.08682								.08682		
CaO	5.10	56.079	0.09094	.00000				.05584		.03510			
Na2O	3.80	61.979	0.06131				.06131						
K2O	3.10	94.203	0.03291			.03291							
P2O5	0.00	141.945	0.00000	.00000									
H2O+	1.10	18.015	0.06106										
H2O-	0.00	18.015	0.00000										
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Totals	100.00		1.56899										
Mole proportions of norm minerals				.00000	.01502	.06582	.12262	.05584	.01941	.03510	.08682	.01844	.18123
Oxygen proportions of norm minerals				.00000	.04506	.52652	.98098	.44671	.07765	.10531	.26047	.05531	.36246
Oxygen percentage of norm minerals				0.00	1.58	18.41	34.29	15.62	3.39	3.68	9.11	1.93	12.67
GFW of norm minerals				986.625	151.775	278.337	262.225	278.21	231.568	116.164	100.396	131.961	60.085
Weight proportions of norm minerals				0.00	2.28	18.32	32.15	15.53	4.50	4.08	8.72	2.43	10.89
											Weight Total =	98.90	
											with water =	100.00	