

List of the the composition of standards used in electron microprobe analyses:

Hakone Anorthite

Si = 20.57 %	Al = 18.98 %	Ca = 13.71 %	Na = 0.44 %
Fe = 0.38 %	O = 46.08. %		
Total = 100.21 %			

Chromite - USNM 117075

Cr = 41.39 %	Fe = 10.14 %	Mg = 9.17 %	Al = 5.25 %
Mn = 0.09 %	Ca = 0.09 %	O = 33.00 %	
Total = 99.13 %			

Rockport Fayalite

Fe = 52.24 %	Si = 13.84 %	Mn = 1.55 %	Zn = 0.38 %
Ca = 0.21 %	Mg = 0.06 %	Al = 0.05 %	Ti = 0.01 %
O = 31.54 %			
Total = 99.79 %			

Orthoclase OR-1

Si = 30.10 %	K = 12.39 %	Al = 9.83 %	Ba = 0.73 %
Na = 0.08 %	Sr = 0.03 %	Rb = 0.03 %	Fe = 0.02 %
H = 0.01 %	O = 46.04 %		
Total = 99.98 %			

San Carlos Olivine

Mg = 30.33 %	Si = 19.13 %	Fe = 6.36 %	Ni = 0.32 %
Mn = 0.09 %	Ca = 0.07 %	Al = 0.02 %	O = 43.74 %
Total = 100.06 %			

Rhodonite 104791

Mn = 36.14 %	Si = 21.66 %	Ca = 2.69 %	Fe = 2.10 %
Al = 0.02 %	Ti = 0.01 %	Mg = 0.58 %	O = 37.28 %
Total = 100.48 %			

Crete Albite

Si = 31.96 %	Al = 10.39 %	Na = 8.77 %	K = 0.02 %
Fe = 0.01 %	O = 48.72 %		
Total = 99.88 %			

Synthetic fluorapatite

Ca = 39.74 %	P = 18.43 %	F = 3.77 %	O = 38.07 %
Total = 100.01 %			

Natural Rutile (Ti)

Ti = 59.93 %	O = 40.06 %
Total = 99.99 %	