

varieties are classed according to the predominance of magnesia, alumina, potash, or oxide of iron, will show.

	Silica.	Alum.	Magnesia.	Potash.	Oxide of Iron and Manganese.	Fluoric Acid.	Analysts.
Mica, magnesian of Siberia	42.5	16.0	26.0	7.6	5.0	0.7	Rose.
aluminous of Sweden	46.4	34.8	-	8.8	5.8	0.8	Rose(3analys.)
ferruginous of Siberia	42.5	11.5	9.0	10.0	22.0	-	Klaproth.
Potash of Moscow	40.0	11.0	19.0	20.0	8.0	-	Vauquelin.
Average	171.4	73.3	54.0	46.4	40.8		
	42.8	18.3	13.5	11.3	10.2	0.4	= 96.5.
The sum =100 gives	44.3	18.9	14.9	11.7	10.6	0.4	= 99.9.

Granite, of the ordinary kind, compounded of quartz, felspar, and mica, varies greatly in the proportion of these substances, yet the fused glasses from which these various products have crystallised, might differ only by small variations in the proportions of the ingredients.

Granite, composed of quartz 2 parts, felspar 2 parts, and mica 1 part, would, according to Mr. de la Beche's calculation, be represented in column 1. of the table below ; and porphyritic granite, composed of quartz 2 parts, felspar 3 parts, and mica 1 part, in column 2. ; and we have added binary granite (felspar 3 parts, and quartz 2 parts) in column 3.

	1.	2.	3.
Silica - - -	74.84	73.04	75.1
Alumina - - -	12.80	13.83	10.9
Potash - - -	7.48	8.51	9.8
Magnesia - - -	0.99	0.83	
Lime - - -	0.37	0.44	0.5
Oxide of iron -	1.93	1.73	0.4
Oxide of manganese	0.12	0.10	
Fluoric acid -	0.21	0.18	