

For purposes of comparison the following table of analyses are given of the ijolites from the various localities at present known.

Analyses of ijolites from several localities.

	1	2 ¹	3 ²	4 ³
Si O ₂	39.250	41.75	42.79	46.63
Al ₂ O ₃	16.012	17.09	19.89	15.03
Fe ₂ O ₃	4.313	6.35	4.39	5.91
Fe O.....	9.640	3.41	2.33	5.09
Mg O.....	4.242	4.71	1.87	3.47
Ca O.....	13.423	14.57	11.76	11.23
Na ₂ O.....	4.917	6.17	9.31	8.16
K ₂ O.....	2.256	3.98	1.67	1.96
H ₂ O (ignit).....	{ 0.797	0.62	{ 0.99	{ 0.35
H ₂ O (110°).....		0.28		
Ti O ₂	4.019	0.58	1.70	1.12
Mn O.....	0.349	trace	0.41	trace
P ₂ O ₅	0.905	1.09	1.70	
	100.123	100.60	98.81	99.57

1—Ijolute, Ice river, British Columbia.

2— „ Magnet Cove, Arkansas, U.S.A.

3— „ Mt. Iiwaara, Finland.

4— „ Kaljokthal, Umptek, Kola.

The hydronephelite which is such an important mineral constituent of the biotite-agirine-ijolite was separated by means of Thoulet's solution, the specific gravity of the powder thus ascertained varying from 2.243—2.275. An analysis of this powder was made by Mr. R. A. A. Johnston, which shows it to have the composition given under 1 in the following table.

Analyses of Hydronephelite and Ranite.

	1 ⁴	2 ⁵	3 ⁵
Si O ₂	42.80	38.99	39.21
Al ₂ O ₃	28.50	33.62	31.79
Fe ₂ O ₃	0.34		0.57
Ca O.....	1.90	0.07	5.07
Na ₂ O.....	14.33	13.07	11.55
K ₂ O.....	0.30	1.12	
H ₂ O.....	10.81	12.98	11.71
	98.98	99.85	96.90
Spec. grav....	2.243—2.275	2.263	2.48

¹ Bull. Geol. Soc. Am., Vol. 11, 1900. No. IV, p. 399.

^{2, 3} Rosenbusch: Elem. Gesteinlehre, p. 180.

⁴ Ann. Rep. Geol. Surv. Can., Vol. XII, p. 13R.

⁵ Dana's Mineralogy. 1892, p. 609.