ta for the acicular mineral
those for corundum (table 7,
-ray data for the adjoining
gree with those for hydro-
$_3 \cdot H_2O$[3] (table 7, col. d). How-
cal data, several strong lines
ern of the mixture, absent in
of hydrosanidine, indicate the
l mineral in the "b" associa-
be identified from the avail-

e indices and the density of
al agree closely with those
he refractive indices and
uble-refracting mineral agree
those of hydrosanidine (table
b" association contains a
e third mineral, we assume
sion this mineral is not in
second conversion takes

$_2O \cdot Al_2O_3 \cdot 4SiO_2 \cdot xH_2O +$
(K-analcime)
$l_2O_3 + K_2O \cdot Al_2O_3 \cdot 6SiO_2 \cdot$
ındum) (hydrosanidine)
$H_2O + H_2O$

hydrosanidine association
specimens up to 1800°C.
section above 1800°C con-
micaceous mass ("c" type
re 1 (3) shows a sketch of a
ecimen whose cold zone had
560°C, and whose hot zone

synthesized at high pressures
964).

k field in the
ongated

TABLE 6. Refractive indices and densities of accessory minerals of "b" association.

	Acicular mineral	Corundum	Double-refracting mineral	$KAlSi_3O_8 \cdot H_2O$***	Weakly double-refracting mineral
Refractive indices	Ng′ = 1.771* Np′ = 1.765*	Ng = 1.767 Np = 1.759	Ng′ = 1.548* Np′ = 1.537*	Ng = 1.545 Np = 1.535	Ng′ = 1.570* Np′ = 1.564*
Densities (g/cm^3)	3.95-4.05	3.95-4.10	2.55-2.65	2.58	2.6-2.7

*All +0.003; **Larsen and Berman, 1965; ***Seki, Kennedy, 1964.

TABLE 7. Interplanar spacings of minerals of "b" association.

a		b		c		d	
Acicular mineral		Corundum**		Material adjoining needles		$KAlSi_3O_8 \cdot H_2O$***	
d*	I	d	I	d*	I	d	I
						7.67	0.5
				4.65	10	4.61	0.3
				4.01	8	3.96	3.0
				3.88	4	3.85	3.3
3.48	10	3.44	3				
				3.30	3		
				3.25	2		
2.94	4			2.96	10	2.957	10
2.69	2			2.67	10	2.667	8.9
2.55	10	2.54	6			2.518	1.0
2.37	3	2.37	4				
				2.31	3	2.308	1.5
				2.22	5	2.241	6.4
						2.211	1.7
2.09	10	2.08	9	2.09	1		
				1.94	4	1.924	1.3
				1.86	3	1.848	1.3
1.73	8	1.74	5	1.75	2	1.746	0.3
						1.715	0.4
				1.70	1	1.703	0.5
1.60	10	1.599	10	1.60	3		
						1.591	1.3
						1.560	0.7
				1.54	5	1.541	1.0
				1.51	2		
1.40	6	1.401	6				
1.37	8	1.374	7	1.37	1		
				1.33	7	1.334	1.0
						1.321	0.3
				1.28	1	1.283	0.8
						1.260	0.3
1.23	3						
						1.216	0.3
						1.203	0.3
						1.184	0.3

*Corrected relative to NaCl; **Mikheyev, 1957; ***Seki, Kennedy, 1964.