

Number	Optic sign	Y (Beta) index of refraction	Fe ₂ O ₃ (weight percent)	* K ₂ O + Na ₂ O (weight percent)	Mole percent				Occurrence	Source
					$\frac{\text{FeO}+\text{MnO}}{\text{FeO}+\text{MnO}+\text{MgO}+\text{CaO}}$	$\frac{\text{FeO}+2(\text{Fe}_2\text{O}_3)+\text{MnO}}{\text{FeO}+2(\text{Fe}_2\text{O}_3)+\text{MnO}+\text{MgO}+\text{CaO}}$	$\frac{\text{Al}_2\text{O}_3}{\text{Al}_2\text{O}_3+\text{SiO}_2} \cdot 4$	$\frac{\text{Al}_2\text{O}_3+\text{Fe}_2\text{O}_3}{\text{Al}_2\text{O}_3+\text{Fe}_2\text{O}_3+\text{SiO}_2} \cdot 4$		
1		1.642	2.20	.00	67	68	1.46	1.52	Argillaceous slate.	Zen, 1955, p. 27 (197-2)
2		1.636	1.70	.00	64	65	1.47	1.51	Argillaceous slate.	Zen, 1955, p. 29 (212-2A)
3	-	1.628	1.72	.13	50	50.5	1.35	1.37	Chlorite-epidote-calcite-albite schist.	Osberg, 1952, p. 59
4	-	1.638	2.08	.00	61	63	1.37	1.42	Quartz-albite-chlorite-muscovite schist.	Osberg, 1952, p. 49
5	-	1.627	2.43		46	48	1.41	1.47	Argillaceous schist; garnet zone.	Skehan, 1953, p. 138
6	+	1.620	2.82	.31	41	43	1.27	1.34	Greenstone.	Tilley, 1938, p. 497-511
7	+	1.622	3.88	.00	44	51	1.31	1.41	Greenstone; albite-chlorite schist.	Hutton, 1938, p. 198 (2586)
8	+	1.623	3.49	Tr	43	49	1.20	1.29	Albite-epidote-chlorite-actinolite-calcite schist.	Hutton, 1938, p. 198 (2718)
9	+	1.608	3.85		25	30	1.37	1.59	Quartz vein in phyllite.	Melon, 1938, p. 19
10	+	1.602	1.93		20	23	1.41	1.46	Quartz vein in phyllite.	Melon, 1938, p. 23
11	-	1.638	4.48		60	63	1.52	1.63	Quartz vein in phyllite.	Melon, 1938, p. 25
12	+	1.636	4.86		52	56	1.44	1.55	Quartzite.	Melon, 1938, p. 31
13	+	1.615	1.64	.03	39	40	1.21	1.26	"Black wall zone" at serpentinite contact.	Chidester, written communication (ID-50-2009)
14	+	1.626	3.4	.2	49	52	1.35	1.44	Albite dike with muscovite and sphene in metamorphic rock.	Agar and Emendorfer, 1937, p. 77
15		1.663	1.99		91	91	1.80	1.85	Cavities in bauxite.	Lyamina and Soboleva, 1937 (M.A.-8-334)
16	+	1.585	1.46	.04	17	19	1.27	1.30	Greenstone.	Simpson, 1936, p. 3
17		1.592	2.04	1.24	13	16	.96	1.03	"Black wall zone" at serpentinite contact.	Phillips and Hess, 1936, p. 340
18	+	1.613	2.76	.62	30	33	1.21	1.25	"Black wall zone" at serpentinite contact.	Phillips and Hess, 1936, p. 340
19	+	1.618	1.90		35	37	1.27	1.32	Chlorite schist associated with feldspathic amphibolite and cut by quartz-copper veins.	Orcel, 1928 (93)
20	-	1.651	1.86		74	75	1.38	1.43	Chlorite vein cutting hematite bed.	Orcel, 1928 (123)
21	-	1.667	.67	.35	91	91	1.49	1.51	In "iron bed" with hematite and magnetite.	Orcel, 1928 (128)
22		1.588	2.00		8	11	1.03	1.09	Tremolite-chlorite schist.	Orcel, 1928 (170)
23		Nav. 1.580	0		0	0	1.00	1.00	Synthetic; pure Mg clinocllore.	Yoder, 1952, p. 576
24	+	1.581	.20		3	3.4	1.50	1.51	Associated with small serpentinite body.	Orcel, 1928 (31)
25	+	1.562	1.66		0	1	1.42	1.45	Albite pegmatite in serpentinite.	Orcel, 1928 (32)
26	+	1.581	.24	.49	1	1	1.49	1.49	Albite pegmatite in serpentinite.	Orcel, 1928 (33)
27	+	1.576	1.43		.6	1	1.36	1.38	Albite pegmatite in serpentinite.	Orcel, 1928 (34)
28	+	1.570	.45	.30	.2	.5	1.44	1.44	Albite pegmatite in serpentinite.	Orcel, 1928 (35)
29		1.593	.67		7	7.6	1.34	1.36	With corundum and spinel.	Orcel, 1928 (57)
30	+	1.588	1.04		9	10	1.40	1.41	With corundum and spinel.	Orcel, 1928 (58)
31	+	1.587	2.56		9.6	13	1.31	1.37	With corundum and spinel.	Orcel, 1928 (59)
32	+	1.594	1.45		15.4	17.4	1.41	1.44	With corundum and spinel.	Orcel, 1928 (67)
33	+	1.593	.57		17	18	1.36	1.37	With margarite.	Orcel, 1928 (68)
34	+	1.605	2.86		34.6	38	1.39	1.46	?	Orcel, 1928 (78)
35	+	1.616	2.00		38	40	1.24	1.29	In quartz veins cutting complex of aplite dikes, amphibolite gneiss and diabase dikes.	Orcel, 1928 (95)
36	-	1.649	--	1.38	94	94	1.47	1.47	?	Orcel, 1928 (132)

* K₂O + Na₂O in weight percent is given where reported unless the analysis was corrected by the author, in which case the corrected analysis was used. Where a chlorite analysis contains much alkali, the sample probably contained impurities.

Table 10. Chlorite analyses and optical data.