

Common Gemstones

	Gemstone	Refractive Index		Reflective Index on PRM / PDT		
1	Actinolite	1.614	- 1.642	28	-	33
2	Albite Feldspar	1.525	- 1.536	22	-	25
3	Almandite Garnet	1.790	- 1.790	41	-	45
4	Amber	1.540	- 1.540	23	-	26
5	Andalusite	1.634	- 1.643	30	-	33
6	Andrdite Garnet (Demantoid)	1.875	- 1.875	47	-	52
7	Apatite	1.642	- 1.646	30	-	34
8	Benitoite	1.757	- 1.804	39	-	47
9	Beryl	1.577	- 1.583	26	-	29
10	Brazilianite	1.602	- 1.621	27	-	32
11	Calcite	1.486	- 1.658	20	-	35
12	Chalcedony	1.535	- 1.539	23	-	25
13	Chrysobery (Alexandrite)	1.746	- 1.755	38	-	42
14	Coral	1.486	- 1.658	20	-	35
15	Corundum (Sapphire only)	1.762	- 1.770	34	-	43
16	Cubic Zirconium Oxide	2.177	- 2.177	65	-	76
17	Danburite	1.630	- 1.636	29	-	33
18	Diamond	2.417	- 2.417	88	-	97
19	Diopside	1.675	- 1.701	33	-	38
20	Dioptase	1.655	- 1.708	31	-	39
21	Emerald	1.580	- 1.580	26	-	29
22	Fluorite	1.434	- 1.434	16	-	18
23	G.G.G	2.030	- 2.030	52	-	57
24	Glass	1.440	- 1.900	17	-	54
25	Hematite	2.940	- 3.220	124	-	157
26	Idocrase	1.713	- 1.718	35	-	39
27	Iolite (Cordierite)	1.542	- 1.551	23	-	27
28	Ivory	1.540	- 1.540	23	-	26
29	Jadeite	1.660	- 1.680	32	-	36
30	Jet	1.660	- 1.660	32	-	35
31	Komerupine	1.667	- 1.680	32	-	36
32	Kyanite	1.716	- 1.731	36	-	41
33	Labradorite Feldspar	1.559	- 1.568	24	-	28
34	Lapis-Lazull (Lazurite)	1.500	- 1.500	20	-	23
35	Malachite	1.660	- 1.910	32	-	55
36	Microcline Feldspar	1.522	- 1.530	22	-	25
37	Moldavite	1.500	- 1.500	20	-	23
38	Nephrite	1.606	- 1.632	28	-	33

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39	Obsidian	1.500	-	1.500	20	-	23
40	Oligoclase Feldspar	1.539	-	1.547	23	-	26
41	Opal	1.450	-	1.450	17	-	19
42	Orthoclase Feldspar (Moonstone)	1.518	-	1.526	22	-	25
43	Peridot	1.654	-	1.690	31	-	37
44	Plastic	1.460	-	1.700	18	-	38
45	Pyrope Garnet	1.746	-	1.746	38	-	42
46	Quartz	1.544	-	1.553	23	-	27
47	Rhodochrosite	1.597	-	1.817	27	-	48
48	Rhodolite Garnet	1.760	-	1.760	39	-	43
49	Rhodonite	1.730	-	1.740	37	-	41
50	Sapphire	1.670	-	1.770	32	-	44
51	Scapolite	1.550	-	1.572	24	-	28
52	Serpentine	1.560	-	1.570	25	-	28
53	Shell	1.530	-	1.686	22	-	37
54	Sinhalite	1.668	-	1.707	32	-	39
55	Sodalite	1.483	-	1.483	19	-	21
56	Spessartite Garnet	1.810	-	1.810	43	-	47
57	Sphene	1.900	-	2.034	49	-	66
58	Spinel	1.718	-	1.718	36	-	39
59	Spodumene (Kunzite)	1.660	-	1.676	32	-	36
60	Strontium Titanate	2.409	-	2.409	77	-	87
61	Synthetic Corundum	1.762	-	1.770	34	-	40
62	Synthetic Emerald (Flux)	1.561	-	1.564	25	-	27
63	Synthetic Emerald (Hydro)	1.568	-	1.573	25	-	28
64	Synthetic Moissanite	2.650	-	2.650	99	-	116
65	Synthetic Rutile	2.616	-	2.903	102	-	134
66	Synthetic Spinel	1.730	-	1.730	30	-	36
67	TL Grossularite Garnet	1.720	-	1.720	36	-	40
68	Topaz (Blue, White)	1.619	-	1.627	29	-	32
69	Tourmaline	1.624	-	1.644	29	-	34
70	TP Grossularite Garnet (Hessonite)	1.740	-	1.740	37	-	41
71	Turquoise	1.610	-	1.650	28	-	34
72	Verdite	1.580	-	1.580	26	-	29
73	Y.A.G.	1.833	-	1.833	41	-	46
74	Zircon (High)	1.925	-	1.984	51	-	62
75	Zircon (Low)	1.810	-	1.815	43	-	47
76	Zircon (Medium)	1.875	-	1.905	47	-	55
77	Zoisite (Tanzanite)	1.691	-	1.704	34	-	38

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