

Gemstone RI

GEM VARIETY	R.I.	BIREFRINGENCE
Hematine	2.940 - 3.220	0.287
Moissanite	2.650 - 2.690	0.043
Diamond	2.417 - 2.419	None
Cubic Zirconia	2.15 - 2.18	None
Demantoid	1.88 - 1.94	None
Uvarovite	1.865	None
Zircon	1.810 - 2.024	0.002 - 0.059
Spessartine	1.790 - 1.820	None
Almandine	1.770 - 1.820	None
Ruby	1.762 - 1.778	0.008
Sapphire	1.762 - 1.778	0.008
Alexandrite	1.746 - 1.763	0.007 - 0.011
Chrysoberyl	1.746 - 1.763	0.007 - 0.011
Cat's Eye	1.746 - 1.763	0.007 - 0.011
Rhodolite	1.742 - 1.785	None
Color Change Garnet	1.742 - 1.780	None
Tsavorite	1.734 - 1.759	None
Hessonite	1.730 - 1.757	None
Azurite	1.720 - 1.848	0.108 - 0.110
Pyrope	1.720 - 1.756	None
Spinel	1.712 - 1.782	None
Tanzanite	1.691 - 1.700	0.009
Diopside	1.664 - 1.730	0.024 - 0.031
Kunzite	1.660 - 1.681	0.014 - 0.016
Malachite	1.666 - 1.909	0.254
Jadeite	1.652 - 1.688	0.02
Peridot	1.650 - 1.703	0.036 - 0.038
Jet	1.640 - 1.680	None
Apatite	1.628 - 1.649	0.002 - 0.006
Andalusite	1.627 - 1.649	0.007 - 0.013
Tourmaline	1.614 - 1.666	0.014 - 0.032
Gaspeite	1.610 - 1.810	0.22
Turquoise	1.610 - 1.650	0.04
Topaz	1.609 - 1.643	0.009 - 0.016
Sugilite	1.607 - 1.611	0.001 - 0.004
Rhodochrosite	1.600 - 1.820	0.208 - 0.220
Nephrite	1.600 - 1.627	0.027
Howlite	1.586 - 1.605	0.019
Emerald	1.565 - 1.602	0.005
Aquamarine	1.565 - 1.602	0.005
Morganite	1.562 - 1.605	0.004 - 0.010
Heliodor	1.562 - 1.605	0.004 - 0.010

Bixbite	1.562 - 1.605	0.004 - 0.010
Goshenite	1.562 - 1.605	0.004 - 0.010
Labradorite	1.559 - 1.570	0.008 - 0.010
Charoite	1.550 - 1.561	0.004 - 0.009
Amethyst	1.544 - 1.553	0.009
Aventurine	1.544 - 1.553	0.009
Ametrine	1.544 - 1.553	0.009
Citrine	1.544 - 1.553	0.009
Rock Crystal	1.544 - 1.553	0.009
Rose Quartz	1.544 - 1.553	0.009
Smoky Quartz	1.544 - 1.553	0.009
Iolite	1.542 - 1.578	0.008 - 0.012
Jasper	1.54	None
Amber	1.539 - 1.545	None
Agate	1.530 - 1.540	0.004 - 0.009
Bloodstone	1.530 - 1.540	0.004 - 0.009
Chalcedony	1.530 - 1.540	0.004 - 0.009
Carnelian	1.530 - 1.540	0.004 - 0.009
Chrysoprase	1.530 - 1.540	0.004 - 0.009
Onyx	1.530 - 1.540	0.004 - 0.009
Sunstone	1.525 - 1.548	0.01
Amazonite	1.522 - 1.530	0.008
Pearl	1.52 - 1.69	0.158
Moonstone	1.518 - 1.528	0.008
Lapis Lazuli	1.5	None
Coral	1.486 - 1.658	0.160 - 0.172
Moldavite	1.48 - 1.54	None
Sodalite	1.48	None
Chrysocolla	1.46 - 1.57	0.023 - 0.040
Obsidian	1.45 - 1.55	None
Fluorite	1.434	None
Fire Opal	1.37 - 1.52	None
Opal	1.37 - 1.52	None