

Characteristics of Gemstones

SPECIES	HARDNESS (MOHS)	SPECIFIC GRAVITY	REFRACTIVE INDEX	DISPERSION	DURABILITY
Alabaster	1 - 1.5	2.2 - 2.4	1.52	med - high	low
Alexandrite (**)	8	3.68 - 3.78	1.75	low	high
Amber	2.5	1.03 - 1.1	1.54	none	low
Apatite (**)	5	3.16 - 3.22	1.64 - 1.65	low	medium
Aquamarine	7.75	2.68 - 2.7	1.57 - 1.575	low	high
Azurite	3.5	3.8	1.48 - 1.65	none	low
Beryl (**)	7.75	2.70	1.58	low	high
Cat's Eye (**)	8	3.68 - 3.79	1.54 - 1.75	low	high
Chalcedony	7	2.65	1.55	low	high
Chrysoberyl (**)	8.5	3.71	1.75	low	high
Corundum (**)	9			low	high
Diamond	10	3.52	2.42	high	high
Emerald	7.75	2.66 - 2.78	1.56	low	high
Epidote	6	3.25 - 3.49	1.73 - 1.76	med - high	high
Feldspar (650)	6 - 6.5			low	medium
Garnet (650)	7.5	3.7 - 4.16	1.74 - 1.89	med - high	high
Gypsum	1 - 1.5	2.3	1.53	med - high	low
Hematite (650)	5.5 - 6.5	4.95 - 5.3	2.94 - 3.22	none	high
Jade	6.5 - 7	3.30 - 3.38	1.68	none	high
Jadite	7	3.33	1.66	none	high
Jet	3.5	1.1 - 1.4	1.64 - 1.68	none	low
Kunzite	7	3.13 - 3.31	1.66 - 1.68	medium	low
Labradorite (650)	6	2.7 - 2.72	1.52	medium	medium
Lapis Lazuli	5	2.76 - 2.94	1.5	none	medium
Malachite	3 - 4	3.7 - 4	1.87 - 1.98	none	low
Marble	3	2.71	1.48 - 1.65	none	low
Moonstone (650)	6	2.5 - 2.55	1.52 - 1.54	low	high
Nephrite	6.5	2.96	1.62	none	high
Obsidian (650)	6	2.33 - 2.6	1.48 - 1.51	high	medium
Olivine	6	3.3 - 3.5	1.65	medium	high
Opal	6	1.97 - 2.2	1.45	none	low
Peridot (650)	6.5	3.34	1.68	low	medium
Quartz	7	2.65	1.55	low	high
Rodonite	5	3.53	1.73 - 1.74	none	medium
Ruby (**)	9	4.00	1.77	low	high
Sapphire (**)	9	4.00	1.77	low	high
Serpentine	3.5	2.5 - 2.7	1.57	low	low
Sodalite	5	2.13 - 2.29	1.483	low	medium
Spectrolite (650)	6	2.7 - 2.72	1.52	low	medium
Sphene	5	3.45 - 3.56	1.95 - 2.05	high	medium
Spinel (**)	8	3.60	1.72	low	high
Spodumene	7	3.18	1.66	low	low
Steatite	1 - 1.5	2.7 - 2.8		none	low
Topaz	8	3.54	1.63	low	medium
Tourmaline	7	3.06	1.63	low	high
Turquoise	5	2.6 - 2.8	1.61 - 1.65	none	medium
Zircon	7	4.02	1.81	high	high

(**) Can be fired at 1472°F for 30 minutes with ACS Standard Series

In addition to (**), (650) can be successfully fired at 1200°F using 650 Low Fire Series.