







Coloured Gemstone Specifications and Treatments										
Gemstone name	Gemstone family	Gemstone type	Gemstone image	Colour	Moh's Hardness	Treatments	Lustre	Gemstone care - Ultrasonic	Gemstone care - Steam	Special Advice
Agate	Chalcedony	Ornamental		Brown, black, blue, white, red, orange, grey, purple	7.0	Dyed	Waxy - dull	Never	Never	Brittle, handle with care
Alexandrite	Chrysoberyl	Precious		Blue-green to red	8.5	Laser (rare)	Vitreous	Usually safe	Usually safe	
Amazonite	Feldspar	Ornamental		Green, blue, grey	6.0 – 6.5	Dyed	Vitreous	Never	Never	
Amber	Organic	Ornamental		Honey brown, yellow, green, blue	2.0 – 3.0	Heated and high-pressure	Resinous	Never	Never	Soft – wear with care
Amethyst	Quartz	Precious		Purple	7.0	Heated	Vitreous	Usually safe	Avoid	
Ametrine	Quartz	Precious		Purple to yellow	7.0	Heated	Vitreous	Usually safe	Avoid	
Apatite	Phosphate	Precious		Bright blue-green, green	5.0	Heated	Vitreous	Never	Never	Avoid thermal shock
Aquamarine	Beryl	Precious		Green, bluish-green, light blue	7.5-8.0	Heated	Vitreous	Unsafe	Avoid	
Aventurine	Quartz	Ornamental		Green, red, brown	7.0	None	Vitreous, dull	Usually safe	Usually safe	
Carnelian	Quartz	Ornamental		Orangy-red	6.5	Heated, dyed	Vitreous	Never	Avoid	Avoid impact
Chrome Diopside	Diopside	Precious		Green, brown, black	5.5-6.0	None	Vitreous to dull	Never	Never	Avoid impact
Chrysoprase	Quartz	Ornamental		Mint apple green	6.5-7.0	None	Vitreous to waxy	Usually safe	Avoid	Beware of heat
Citrine	Quartz	Precious		Yellow, golden yellow, dark yellow	7.0	Heated	Vitreous	Usually safe	Never	
Coral	Organic	Ornamental		Red, pink, white	3.5-4.0	Dyed	Vitreous, waxy	Never	Never	Avoid chemicals and heat
Chrysoberyl	Chrysoberyl	Precious		Yellow, brown, green	3.7-3.8	Rarely	Vitreous	Usually safe	Usually safe	Avoid open flame
Diamond	Diamond	Precious		Red, blue, green, yellow, pink, orange, colourless	10.0	Laser drilling, fracture filled, heat treatment, high pressure/high temperature	Adamantine	Usually safe	Usually safe	Avoid impact
Emerald	Beryl	Precious		Green	7.5-8.0	Oiled	Vitreous	Never	Never	Avoid sudden temperature changes
Garnet - Almandine	Garnet	Precious		Deep red	7.0-7.5	None	Vitreous	usually safe	Never	
Garnet - Andradite	Garnet	Precious		Brown, orange, green, red, yellow, black, grey	6.5-7.5	None	Vitreous	usually safe	Never	Avoid heat

Garnet - Demantoid	Garnet	Precious		Yellowish to dark green	6.5-7.5	None	Vitreous	usually safe	Never	
Garnet - Grossular	Garnet	Precious		Green, brown, red, yellow	6.5-7.7	None	Vitreous	usually safe	Never	
Garnet - Hessonite	Garnet	Precious		Yellow-orange, red-orange	7.0-7.5	None	Vitreous	usually safe	Never	
Garnet - Pyrope	Garnet	Precious		Red to brownish-red	7.0-7.5	None	Vitreous	usually safe	Never	
Garnet - Rhodolite	Garnet	Precious		Rose to lavender	7.0-7.5	None	Vitreous	usually safe	Never	Avoid thermal shock
Garnet - Spessartite	Garnet	Precious		Yellowish-orange, orange, red, reddish-brown, brown	7.0-7.5	None	Vitreous	usually safe	Never	
Garnet - Tsavorite	Garnet	Precious		Bright green	7.0-7.5	None	Vitreous	usually safe	Never	Avoid sudden temperature changes
Garnet - Uvarovite	Garnet	Precious		Green	6.5-7.0	None	Vitreous	usually safe	Never	
Hellodior	Beryl	Precious		Yellow, golden yellow	7.5-8.0	Heated, irradiated	Vitreous	usually safe	Avoid	
Hematite	Metallic	Ornamental		Black, black-grey, brown-red	6.0-6.5	None	Metallic	Never	Usually safe	
Howlite	Calcium-silicon borate	Ornamental		White, grey, blue, red with dark veining	3.5	Dyed	Waxy, matt	Never	Never	Avoid heat, chemicals and knocks
Iolite	Cordierite	Precious		Blue, purple-blue	7.0-7.5	None	Vitreous	Never	Never	
Jadeite	Jade	Ornamental		Brown, blackish, violet, green, white, red, yellow	6.5-7.0	Bleached, dyed	Waxy, greasy	Never	Never	
Nephrite Jade	Jade	Ornamental		Green, white, grey, red, brown, yellow, spotted, black	6.0-6.5	Dyed, coated or impregnated	Vitreous	Never	Never	
Jasper	Quartz	Ornamental		All colours, mostly striped or spotted	6.5-7.0	Dyed	Dull, vitreous	Avoid	Avoid	
Kunzite	Spodumene	Precious		Pink, violet	6.5-7.1	Irradiated	Vitreous	Never	Never	Avoid sunlight
Kyanite	Silicate	Precious		Indigo blue, white	4.5 - 7.0	None	Vitreous	Never	Never	Brittle, prone to splitting
Labradorite	Feldspar	Precious		Purple, grey, blue, yellow	6.0-6.5	None	Vitreous, pearly, iridescent	Never	Never	
Lapis Lazuli	Lazurite	Ornamental		Lazur blue, gold flecks	5.0-6.0	None	Vitreous, greasy to dull	Never	Never	Avoid chemicals
Larimar	Pectolite	Ornamental		Light blue, white, green	4.5-5.0	None	Sub-vitreous, silky	Never	Never	Avoid sunlight

<b>Malachite</b>	Carbonate	Ornamental		Light-green to black-green, banded	3.5-4.0	None	Weak vitreous, matte	Never	Never	Avoid chemicals and impact
<b>Moissanite</b>	Silicon Carbide	Precious		Colourless, black	9.25	None	Adamantine	Usually safe	Usually safe	Avoid heat
<b>Moonstone</b>	Feldspar	Ornamental		Colourless, yellow, grey, orange	6.0-6.5	None known	Vitreous to pearly	Never	Never	Sensitive to pressure – wear with care
<b>Morganite</b>	Beryl	Precious		Orangy-pink, pink	7.5-8.0	Irradiated, heated	Vitreous	Usually safe	Usually safe	
<b>Onyx</b>	Chalcedony	Ornamental		Black, white, red	6.5-7.0	Dyed, heated	Vitreous, silky	Never	Never	Avoid heat
<b>Opal</b>	Opal	Precious		All colours	5.5-6.5	Dyed	Waxy, resinous	Never	Never	Avoid heat, chemicals and pressure
<b>Opal - Fire</b>	Opal	Precious		Orange-yellow, red, iridescent	5.0-6.5	None known	Vitreous, waxy, resinous	Never	Never	Avoid heat, chemicals and pressure
<b>Pearl</b>	Organic	Precious		White, pink, silver, blue, black, cream, golden	2.5-4.5	Bleached, dyed, irradiated	Pearly	Never	Never	Avoid abrasion and chemicals
<b>Pearl - Abalone (Paua shell)</b>	Organic	Ornamental		Blue-green iridescent	3.5	None known	Waxy - dull	Never	Never	Brittle, handle with care
<b>Pearl - Mother of Pearl (MOP)</b>	Organic	Ornamental		White, grey, pink, red, silver, yellow, blue, green, black	2.5-4.5	None known	Pearly	Never	Never	
<b>Peridot</b>	Quartz	Precious		Green, yellow-green	6.5-7.0	None	Vitreous, greasy	Never	Never	Avoid heat
<b>Prehnite</b>	Prehnite	Ornamental		Yellow-green, brown-yellow	6.0-6.5	None known	Vitreous to pearly	Never	Never	
<b>Quartz - Prasiolite</b>	Quartz	Ornamental		Pale green	7.0	Irradiated, heated	Vitreous	Usually safe	Never	
<b>Quartz - Rose</b>	Quartz	Precious		Pink	7.0	Sometimes dyed	Vitreous	Usually safe	Never	
<b>Quartz - Rutilitated</b>	Quartz	Ornamental		Clear to smoky with rutile needles (golden, black, red-pink)	6.0-6.5	None	Vitreous	Usually safe	Avoid	
<b>Quartz - Smoky</b>	Quartz	Precious		Brown to black, smoky grey	7.0	Dyed	Vitreous	Usually safe	Avoid	
<b>Ruby</b>	Corundum	Precious		Red and pink	9.0	Heated	Vitreous	Usually safe	Usually safe	
<b>Sapphire</b>	Corundum	Precious		Violet, green, yellow, orange, pink, purple, blue and intermediate hues.	9.0	Heated, diffusion treated, beryllium treated	Vitreous	Usually safe	Usually safe	
<b>Sodalite</b>	Sodalite	Ornamental		Deep blue, white	5.5-6.0	Dyed	Vitreous to greasy	Never	Never	Dyed material may fade
<b>Spinel</b>	Spinel	Precious		Black, grey, blue, pink, red, purple, violet and intermediate hues	8.0-8.5	None	Vitreous	Usually safe	Usually safe	

<b>Tanzanite</b>	Zoisite	Precious		Blue, purple, green, brown (unheated)	6.0-7.0	Heated	Vitreous	Never	Never	
<b>Tiger's Eye</b>	Quartz	Ornamental		Brown with golden and/or yellow bands	7.0	None	Silky	Never	Never	
<b>Topaz</b>	Topaz	Precious		White, brown, yellow, orange, blue	8.0	Heated, irradiated	Vitreous	Never	Never	Avoid thermal shock
<b>Tourmaline</b>	Tourmaline	Precious		Green, blue, red, pink, "watermelon", orange, yellow, purple, black	7.0-7.5	None	Vitreous to resinous	Usually safe	Never	Avoid thermal shock
<b>Turquoise</b>	Aluminium Phosphate	Ornamental		Blue, green	5.0-6.0	None	Waxy, matt	Never	Never	Avoid heat
<b>Zircon</b>	Zircon	Precious		Colourless, yellow, red, brown, orange, green, blue, violet	6.5-7.5	Heated	Vitreous	Never	Never	Avoid heat