

**MINERAL DESCRIPTION TABLE**

MINERAL ID AND NAME	COLOUR	STREAK	LUSTRE	HABIT	SPECIFIC GRAVITY	HARDNESS	CLEAVAGE	OTHER PROPERTIES
3 Galena PbS	Lead grey	Dark grey to black	Metallic; shiny on fresh surfaces	Cubes and octahedra, tabular or skeletal	Very high (7.6)	2.5	3 planes; perfect at 90° (cubic)	Twinned
15 Magnetite Fe <sub>3</sub> O <sub>4</sub>	Black	Black	Metallic	Octahedral, granular to massive	High (5.2)	5.0–6.0	None	Strongly magnetic
20 Calcite CaCO <sub>3</sub>	Commonly white; transparent	White	Vitreous, pearly	Rhombohedral cleavage fragments	Low (2.7)	3 (by definition)	3 planes; perfect at 74° and 55° (rhombohedral)	Reacts vigorously with HCl, double refraction
26 Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O	Commonly colourless, transparent	White	Vitreous or pearly, sometimes silky	Blade-like crystals	Low (2.3)	2 (by definition)	3 planes; one perfect, two less distinct	Twinned
28 Quartz SiO <sub>2</sub>	Commonly white or transparent	Too hard	Glassy/vitreous	Six-sided prisms common	Low (2.65)	7 (by definition)	None	Conchoidal fracture; variable colour
29 Olivine (Mg,Fe) <sub>2</sub> SiO <sub>4</sub>	Olive green	Too hard	Glassy	Massive to granular	Medium (3.3)	6.5–7.0	None	Conchoidal fracture
32 Actinolite Ca <sub>2</sub> (Mg,Fe) <sub>5</sub> Si <sub>8</sub> O <sub>22</sub> (OH) <sub>2</sub>	Pale to dark green, black	White	Vitreous to dull	Bladed, fibrous, radial	Medium (3.0)	5.0–6.0	2 perfect planes	Double refraction
33 Muscovite KAl <sub>2</sub> (AlSi <sub>3</sub> O <sub>10</sub> )(OH) <sub>2</sub>	Colourless; transparent in thin sheets	White	Vitreous, silky, pearly	Massive to platy	Low (2.7)	2.0–2.5	One perfect plane (planar)	Cleaved sheets are elastic
36 Plagioclase NaAlSi <sub>3</sub> O <sub>8</sub> – CaAl <sub>2</sub> Si <sub>2</sub> O <sub>8</sub>	White/grey	White	Vitreous	Tabular, granular, massive	Low (2.6)	6–6.5	Two planes at 90° (prismatic)	Twinned
41 Garnet (Fe,Mg,Ca,Mn) <sub>3</sub> Al <sub>2</sub> Si <sub>3</sub> O <sub>12</sub>	Red to reddish-brown (almandine)	Too hard	Glassy	Rhombic dodecahedra; ‘soccer balls’	Medium (3.1–4.3)	6.5–7.5	None	Conchoidal fracture