# DARK MINERALS WITH NON-METALLIC LUSTRE

H = hardness, SG = specific gravity

	Streak	Cleavage / Fracture	н	SG	Other Properties	Mineral Name and Formula
Hardness > 6.5 (kerder than streak plate)	None (scratches streak plate)	No cleavage. Conchoidal fracture	7	3.5 to 4.3	Vitreous to resinous lustre. Variable colour (red to reddish brown most common). Commonly seen as equant 12-sided crystals that may appear rounded if small in size.	Garnet family (Complex Ca, Fe, Mg, Al, Cr, Mn isolated silicate)
Hardness 5.5 to 6.5 (harder than glass, softer than streak plate)	Colourless to pale green	No cleavage. Conchoidal fracture.	6.5 to 7	3 to 3.3	Olive green to yellow-green. Commonly form small, granular glassy crystals.	Olivine ((Fe,Mg),SiO,t)
	Colourless to pale green	2 planes: 1 perfect, 1 poor, not at 90°	6 to 7	3.3	Pale green - yellow to dark green. Pistachio green common.	Epidote (Complex Ca, Al, Fe, OH ring silicate)
	Colouriess to pale green	2 directions at ~90*	5 to 6	3.2 to 3.4	Greenish-black to shades of green. Commonly seen as vitreous black short prismatic crystals.	Pyroxene family (augite) (Ca,Na)(Mg,Fe,ALTI) (Si,Al)(O <sub>2</sub>
	Colourless to pale green	2 directions not at 90° (56° and 124°)	5 to 6	3 to 3.4	Greenish-black to shades of green. Commonly seen as vitreous black elongate crystals.	Amphibole family (hornblende) (Ca, Na)(2-3(Mg, Fo, Alb)(AL SibOa)(OH, Flo)
	White	2 directions at ~90°	-6	2.6	Variable colour (white to dark grey). Labradorite commonly dark blue-grey and irredescent. Striations on some faces.	Feldspar family (anorthite) (CaAl <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> )
	Distinct red- brown	No cleavage	5 to 6.5	5.3	Typically earthy lustre and red-brown colour. Rare steel grey variety has metallic lustre (specular hematite).	Hematite (Fc <sub>2</sub> O <sub>2</sub> )
Hardness 2.5 to 5.5	Pale yellow	6 good cleavage directions	3.5 to 4	4	Submetallic or resinous lustre. Yellow, red, green, brown, and black varieties possible. Streak smells like sulphur.	Sphalerite (ZnS)
Hardness < 2.5 (softer than flagernal!)	Greenish-brown	Perfect in one direction	2.5 to 3	3	Dark-coloured (brown to black), flakes into thin elastic sheets	Biotite (X(Mg,Fe),AISi,O <sub>11</sub> (OH) <sub>1</sub> )
	Yellow-brown	Rarely seen	1 to 3	3.5	Yellow-brown to dark brown, earthy lustre, powders easily. Often seen coating other minerals.	Limonite (FeO(OH),H <sub>2</sub> O)
	White or colourless	Perfect in one direction, rarely seen	2 to 2.5	2.6 to 3.3	Shades of green, mica-like mineral.	Chlorite (Complex Fe-Mg phyllosilicate)

# **Data Table Mineral Identification Laboratory Manual Minerals**

F. J. Pettijohn, P. E. Potter, R. Siever

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especially those concerned with petroleum ground water and economic geology either in industry or government Because the subject is so closely tied to surface processes it may also be of interest to geo morphologists and engineers who deal with beaches and rivers where sand is in transit Materials Handbook François Cardarelli, 2013-11-11 Despite the several comprehensive series available in Material Sciences and their related fields it is a hard task to find grouped properties of metals and alloys ceramics polymers minerals woods and building materials in a single volume source book Actually the scope of this practical handbook is to provide to scientists engineers professors technicians and students working in numerous scientific and technical fields ranging from nuclear to civil engineering easy and rapid access to the accurate physico chemical properties of all classes of materials Classes used to describe the materials are i metals and their alloys ii semiconductors iii superconductors iv magnetic materials v miscellaneous electrical materials e q dielectrics thermocouple and industrial electrode materials vi ceramics refractories and glasses vii polymers and elastomers viii minerals ores meteorites and rocks ix timbers and woods and finally x building materials Particular emphasis is placed on the properties of the most common industrial materials in each class Physical and chemical properties usually listed for each material are i mechanical e q density elastic moduli Poisson s ratio yield and tensile strength hardness fracture toughness ii thermal e q melting point thermal conductivity specific heat capacity coefficient oflinear thermal expansion spectral emissivities iii electrical e g resistivity dielectric permittivity loss tangent factor iv magnetic e g magnetic permeability remanence Hall constant v optical e g refractive indices reflective index vi electrochemical e g

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