

Minerals By Hardness

Boehmite	0. soft
Carnotite	0. soft
Mercury	0
Carnallite	1
Embolite	1.- 1.5
Graphite	1.- 2.
Halloysite	1.- 2.
Hectorite	1.- 1.5
Iodobromite	1.- 1.5
Iodyrite	1.- 1.5
Molybdenite	1.- 1.5
Montmorillonite	1.- 1.5
Nagyagite	1.- 1.5
Nontronite	1.- 1.5
Pyrolusite	1.- 2.
Pyrophyllite	1.- 2.
Saponite	1.- 1.5
Soda nitre	1.- 2.
Sternbergite	1.- 1.5
Talc	1
Ulexite	1
Beidellite	1.5
Calomel	1.5
Covellite	1.5 - 2.
Erythrite	1.5 - 2.5
Ferrimolybdite	1.5
Ice	1.5
Orpiment	1.5 - 2.
Realgar	1.5 - 2.
Sulphur	1.5 - 2.5
Sylvanite	1.5 - 2.
Vermiculite	1.5
Vivianite	1.5 - 2.
Acanthite	2.- 2.5
Argentite	2.- 2.5

Aurichalcite	2
Autunite	2.- 2.5
Bismuth	2.- 2.5
Borax	2.- 2.5
Chlorite	2.- 2.5
Chrysocolla	2.- 4.
Diatomite	2
Dickite	2.- 2.5
Epsomite	2.- 2.5
Garnierite	2.- 3.
Gaylussite	2.- 3.
Glauconite	2
Goslarite	2.- 2.5
Gypsum	2
Hydrozincite	2.- 2.5
Jamesonite	2.- 3.
Kaolinite	2.- 2.5
Krennerite	2.- 3.
Melanterite	2
Muscovite	2.- 2.5
Nacrite	2.- 2.5
Nitre	2
Paragonite	2
Polybasite	2.- 3.
Potash Alum	2.- 2.5
Proustite	2.- 2.5
Sepiolite	2.- 2.5
Serpentine	2.- 5.
Stephanite	2.- 2.5
Stibnite	2
Sylvite	2
Tin	2
Torbernite	2.- 2.5
Tyuyamunite	2
Uranophane	2.- 3.

Biotite	2.5 - 3.
Boulangerite	2.5 - 3.
Bournonite	2.5 - 3.
Bromyrite	2.5
Brucite	2.5
Calaverite	2.5
Cerargyrite	2.5
Chalcanthite	2.5
Chalcocite	2.5 - 3.
Cinnabar	2.5
Clinoclase	2.5 - 3.
Crocoite	2.5 - 3.
Cryolite	2.5
Digenite	2.5 - 3.
Galena	2.5
Geocronite	2.5
Gibbsite	2.5 - 3.5
Glauberite	2.5 - 3.
Gold	2.5 - 3.
Gummite	2.5 - 5.
Halite	2.5
Hessite	2.5 - 3.
Langbeinite	2.5 - 3.5
Linarite	2.5
Menaghinite	2.5
Miargyrite	2.5
Minium	2.5
Petzite	2.5 - 3.
Phlogopite	2.5 - 3.
Phosphuranylite	2.5
Plagionite	2.5
Polyhalite	2.5 - 3.
Pyrargyrite	2.5
Roscoelite	2.5
Semseyite	2.5

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Silver	2.5 - 3.
Stolzite	2.5 - 3.
Stromeyerite	2.5 - 3.
Thenardite	2.5
Tungstite	2.5
Zinnwaldite	2.5 - 3.
Allemontite	3.- 4.
Allophane	3
Altaite	3
Anglesite	3
Anhydrite	3.- 3.5
Atacamite	3.- 3.5
Barite	3.- 3.5
Bornite	3
Calcite	3
Celestite	3.- 3.5
Cerussite	3.- 3.5
Electrum	3
Enargite	3
Eucryptite	3
Greenockite	3.- 3.5
Iddingsite	3
Jarosite	3
Kainite	3
Kernite	3
Larsenite	3
Millerite	3.- 3.5
Pearceite	3
Phosgenite	3
Tennantite	3.- 4.5
Tenorite	3.- 4.
Tetrahedrite	3.- 4.5
Trona	3
Vanadinite	3
Zinkenite	3.- 3.5

Alabandite	3.4 - 4.
Ankerite	3.5
Annabergite	3.5 - 3.
Antlerite	3.5 - 4.
Aragonite	3.5 - 4.
Arsenic	3.5
Azurite	3.5 - 4.
Brochantite	3.5 - 4.
Chalcopyrite	3.5 - 4.
Cubanite	3.5
Cuprite	3.5 - 4.
Dolomite	3.5 - 4.
Heulandite	3.5 - 4.
Magnesite	3.5 - 5.
Malachite	3.5 - 4.
Margarite	3.5 - 5.
Mimetite	3.5
Pentlandite	3.5 - 4.
Powellite	3.5 - 4.
Pyromorphite	3.5 - 4.
Rhodochrosite	3.5 - 4.5
Scorodite	3.5 - 4.
Siderite	3.5 - 4.
Sphalerite	3.5 - 4.
Stilbite	3.5 - 4.
Strontianite	3.5 - 4.
Variscite	3.5 - 4.5
Wavellite	3.5 - 4.
Witherite	3.5
Alunite	4
Bastnaesite	4.- 4.5
Cervanite	4.- 5.
Chabazite	4.- 5.
Colemanite	4.- 4.5
Crocidolite	4

Fluorite	4
Laumontite	4
Libethenite	4
Manganite	4
Platinum	4.- 4.5
Pyrrhotite	4
Riebeckite	4
Stannite	4
Wurtzite	4
Xenotime	4.- 5.
Apophyllite	4.5 - 5.
Bismite	4.5
Brannerite	4.5
Gmelinite	4.5
Harmotome	4.5
Hemimorphite	4.5-5
Linnaeite	4.5-5.5
Palladium	4.5-5
Phillipsite	4.5-5
Scheelite	4.5-5
Siegenite	4.5-5.5
Triphylite	4.5-5
Violarite	4.5-5.5
Actinolite	5.-6
Analcime	5.-5.5
Apatite	5
Augite	5.-6
Awaruite	5
Cancrinite	5.-6
Datolite	5.-5.5
Diopside	5.-6
Dioptase	5
Ferberite	5
Goethite	5.-5.5
Hedenbergite	5.-6

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Hornblende	5.-6
Huebnerite	5
Hypersthene	5.-6
Kyanite	5.-7
Lazulite	5.-5.5
Lazurite	5.-5.5
Lepidocrocite	5
Limonite	5.-5.5
Lithiophilite	5
Loellingite	5.-5.5
Melillite	5
Monazite	5.-5.5
Monticellite	5
Natrolite	5.-5.5
Niccolite	5.-5.5
Nickel iron	5
Opal	5.-6
Pectolite	5
Pigeonite	5.-6
Pyrochlore	5
Samarskite	5.-6
Scolecite	5.-5.5
Skutterudite	5
Smithsonite	5
Sphene	5.-5.5
Thomsonite	5
Thorite	5
Tremolite	5.-6
Wolframite	5.-5.5
Wollastonite	5.-5.5
Allanite	5.5-6
Anatase	5.5-6
Anthophyllite	5.5-6
Arsenopyrite	5.5-6
Bravoite	5.5-6

Bronzite	5.5
Brookite	5.5-6
Chromite	5.5
Cobaltite	5.5
Danaite	5.5-6
Enstatite	5.5
Euxenite	5.5-6.5
Fergusonite	5.5-6.5
Gersdorffite	5.5
Hausmannite	0.5
Hauynite	5.5-6
Hematite	5.5-6.5
Ilmenite	5.5-6
Ilvaite	5.5-6
Jacobsite	5.5-6.5
Leucite	5.5-6
Manganosite	5.5
Marialite	5.5-6
Meionite	5.5-6
Microlite	5.5
Nepheline	5.5-6
Ni skutterudite	5.5-6
Pargasite	5.5
Perovskite	5.5
Polycrase	5.5-6.5
Rammelsbergite	5.5-6
Rhodonite	5.5-6
Scorzalite	5.5-6
Sodalite	5.5-6
Uraninite	5.5
Willemite	5.5
Acmite	6.-6.5
Amblygonite	6
Andesine	6
Anorthite	6

Anorthoclase	6
Arfvedsonite	6
Braunite	6.-6.5
Bytownite	6
Cassiterite	6.-7
Celsian	6
Chloritoid	6.-7
Chondrodite	6.-6.5
Clinoenstatite	6
Clinoferrosilite	6
Clinohumite	6
Clinozoisite	6.-6.5
Columbite	6
Cumingtonit	6
Edenite	6
Epidote	6.-7
Ferrosilite	6
Franklinite	6
Glaucophane	6.-6.5
Hastingsite	6
Helvite	6.-6.5
Humite	6
Hyalophane	6
Iridium	6.-7
Iridosmine	6.-7
Kaliophilite	6
Labradorite	6
Lechatelierite	6.-7
Magnetite	6
Marcasite	6.-6.5
Microcline	6
Mullite	6.-7
Norbergite	6
Noselite	6
Oligoclase	6

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Orthoclase	6
Ottrelite	6.-7
Petalite	6.-6.5
Polianite	6.-6.5
Prehnite	6.-6.5
Pyrite	6.-6.5
Rutile	6.-6.5
Sillimanite	6.-7
Tantalite	6.-6.5
Tephroite	6
Turquoise	6
Zoisite	6
Axinite	6.5-7
Diaspore	6.5-7
Fayalite	6.5
Forsterite	6.5
Gadolinite	6.5-7
Garnet (G)	6.5-7.5
Grossularite	6.5
Idocrase	6.5
Jadeite	6.5-7
Olivine	6.5-7
Piedmontite	6.5
Pollucite	6.5
Spodumene	6.5-7
Thorianite	6.5
Turgite	6.5
Almandite	7
Andradite	7
Boracite	7
Chalcedony	7
Chert	7
Cordierite	7.-7.5
Cristobalite	7
Danburite	7

Dumortierite	7
Flint	7
Pyrope	7
Quartz	7
Rhodolite	7
Spessartite	7
Staurolite	7.-7.5
Tourmaline	7.-7.5
Tridymite	7
Andalusite	7.5
Beryl	7.5-8
Euclase	7.5
Gahnite	7.5-8
Galaxite	7.5-8
Hercynite	7.5-8
Phenacite	7.5-8
Uvarovite	7.5
Zircon	7.5
Lawsonite	8
Topaz	8
Chrysoberyl	8.5
Corundum	9
Diamond	10

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