SPECIFIC GRAVITY OF ORES, MINERALS & ROCKS

SLURRIES & SOLIDS

MATERIAL	SPECIFIC GRAVITY	MOHS HARDNESS
Aluminum	2.55-2.75	1-2
Amber	1.06-1.11	
Ambylgonite	3-3.1	5.5-6
Andesine	2.66-2.94	6-6.5
Aragonite, CaCO3	2.94-2.95	3.5-4
Argentite	7.2-7.4	2-2.5
Asbestos	2.1-2.4	2
Asphaltum	1.1-1.5	
Asphalt Rock	2.41	
Barite	4.5	3-3.5
Basalt	2.4-3.1	8-9
Bauxite	2.55-2.73	
Bentonite	1.6	
Bertrandite	2.6	6
Beryl	2.66-2.83	7.5-8
Biotite	2.7-3.1	2.5-3
Bone	1.7-2	
Borax	1.71-1.73	2-2.5
Bornite	5.06-5.08	3
Braggite	10	
Braunite	4.72-4.83	6-6.5
Brick	1.4-2.2	
Calcite	2.72-2.94	3
Carnotite	2.47	1-2
Cassiterite	6.99-7.12	6-7
Carbon, Amorphous, Graphitic	1.88-2.25	
Celluloid	1.4	
Cerussite	6.5-6.57	3-3.5
Chalcocite	5.5-5.8	2.5-3
Chalcopyrite	4.1-4.3	3.5-4
Chalk	1.9-2.8	
Charcoal, Pine	0.28-0.44	
Charcoal, Oak	0.47-0.57	
Chromite	4.5	5.5
Chrysoberyl	3.65-3.85	8.5
Cinnabar	8.09	2-2.5
Clay	1.8-2.6	2
Coal, Anthracite	1.4-1.8	2
Coal, Bituminous	1.2-1.5	
Coal, Lignite	1.1-1.4	
Cobaltite	6.2	5.5
Coke	1-1.7	
Colemanite	1.73	4.5
Columbite	5.15-5.25	6
Copper	8.95	2.5-3
Cork	0.22-0.26	
Covellite	4.6-4.76	1.5-2
Cuprite	6	3.5-4
Diabase	2.94	
Diatomaceous Earth	0.4-0.72	
Diorite	2.86	
Dolomite	2.8-2.86	3.5-4
Enargite	4.4-4.5	3
Epidote	3.25-3.5	6
Feldspar	2.55-2.75	
Fluorite	3.18	4
Fly Ash	2.07	
Galena	7.3-7.6	2.5-2.75
Glass	2.4-2.8	7
Goethite	3.3-4.3	5-5.5
Gold	19.3	2.5-3
Granite	2.6-2.9	
Graphite	2.2-2.72	1-2
Gravel, Dry	1.55	4-5
Gravel, Wet	2	
Gypsum	2.3-2.37	2
Halite	2.2	2.5
Hausmannite	4.83-4.85	5.5
Helvite	3.2-3.44	6
Hematite	4.9-5.3	5-6

MATERIAL	SPECIFIC GRAVITY	MOHS HARDNESS
Hessite	8.24-8.45	2-3
Ice	0.917	
Ilmenite	4.68-4.76	5-6
Iron, slag	2.5-3	
Lepidolite	2.8-2.9	2.5-4
Lime, slaked	1.3-1.4	
Limestone	2.4-2.7	2-5
Limonite	3.6-4	
Linnaeite	4.89	
Magnetite	4.9-5.2	5.5-6.5
Manganite	4.3-4.4	4
Marble	2.5-2.78	
Marl	2.23	
Millerite	5.3-5.7	3-3.5
Monazite	5.1	5
Molybdenite	4.62-4.73	1-1.5
Muscovite	2.77-2.88	2.5-3
Niccolite	7.784	5-5.5
Orpiment	3.5	1.5-2
Pentlandite	4.8	3.5-4
Petalite	2.412-2.422	6.5
Phosphorite	3.21	
Phosphorus, white	1.83	
Polybasite	6-6.2	2-3
Porphyry	2.6-2.9	
Potash	2.2	
Powellite	4.21-4.25	3.5-4
Proustite	5.57	2-2.5
Psilomelane	4.71	5-6
Pumice	0.37-0.9	
Pyragyrite	5.85	2.5
Pyrites	4.95-5.1	3.5-4.5
Pyrolusite	4.8	6-6.5
Quartz	2.5-2.8	7-8
Quartzite	2.68	7
Realgar	3.56	1.5-2
Rhodochrosite	3.7	3.5-4
Rhodonite	3.57-3.76	5.5-6.5
Rutile	4.2-5.5	6-6.5
Sand (see Quartz)	1.7-3.2	7
Sandstone	2-3.2	7
Scheelite	6.08-6.12	4.5-5
Schist	2.6-3	
Serpentine	2.5	2.5-3.5
Shale	1.6-2.9	
Siderite	3.9-4	4-4.5
Silica, fused trans.	2.21	
Slag, Furnace	2-3.9	
Slate	2.8-2.9	
Smaltite	6.48	
Soapstone, talc	2.6-2.8	2
Sodium Nitrate	2.2	
Sperrylite	10.58	6-7
Spodumene	3.03-3.22	6.5-7
Sphalerite	3.9-4.1	3.5-4
Stannite	4.3-4.5	4
Starch	1.53	
Stibnite	4.61-4.65	2
Sugar	1.59	
Sulfur	1.93-2.07	1.5-2.5
Sylvanite	8.161	1.5-2
Taconite	3.18	
Tallow, beef	0.94	
Tantalite	7.9-8	6.5
Tetrahedrite	4.6-5.1	3-4.5
Titanite	3.5	
Trap Rock	2.79	
Uraninite	8-11	5-6
Witherite	4.29-4.3	3.5
Wolframite	7.12-7.51	4-4.5
Zinc Blende	4.02	4
Zincite	5.64-5.68	4