Density Acceptance Chart

A calculated density earns credit when it falls anywhere between the low and high values shown. All values are in grams per milliliter (g/mL).

Sample	Rock or mineral	Target density	Low -10%	High +10%
10	Gray sandstone	2.35 g/mL	2.12 g/mL	2.59 g/mL
14	Siltstone	2.50 g/mL	2.25 g/mL	2.75 g/mL
15	Coquina	1.80 g/mL	1.62 g/mL	1.98 g/mL
18	Calcite	2.71 g/mL	2.44 g/mL	2.98 g/mL
22	Microcline - incorrectly numbered; should be 17	2.56 g/mL	2.30 g/mL	2.82 g/mL
22	Limonite - correctly numbered	3.60 g/mL	3.24 g/mL	3.96 g/mL
23	Milky quartz	2.65 g/mL	2.39 g/mL	2.92 g/mL
24	Siderite	3.87 g/mL	3.48 g/mL	4.26 g/mL

About the two samples marked 22

The brown, earthy specimen is limonite and is correctly numbered 22. The pink, blocky specimen is microcline and should have been numbered 17. Because the kit was marked incorrectly, either 22 result will be accepted when it matches the correct range for that specimen.

Density = mass / volume

A result anywhere from the low value through the high value earns credit.