

# Physical Characteristics of Abrasives

MATERIAL	HARDNESS (MOHS SCALE)	GRAIN SHAPE	SPECIFIC GRAVITY	COLOR	FREE SILICA CONTENT	FREE IRON CONTENT	DURABILITY
CORN COBS	2	Cubical	1.3	Tan	None	None	Good
WALNUT SHELLS	3	Cubical	1.3	Light Brown	None	None	Good
PLASTIC MEDIA	3 to 3.5	Angular	1.2	White	None	< .002%	Excellent
GLASS BEADS	4.5	Spherical	3	Crystal	None	None	Good
SAND	5	Rounded	1.75	Tan	90% to 100%	< 1%	Fair
COPPER SLAG	6 to 8	Spherical	3.16	Black	None	< 1%	Good
STEEL SHOT	6 to 7	Spherical	4.8	Steel Grey	None	99%	Excellent
STEEL GRIT	6 to 7	Angular	1.75	Steel Grey	None	99%	Excellent
FLINT SHOT	6 to 7	Spherical	1.75	White	90% to 100%	< 2%	Good
GARNET	7	Spherical	4	Pink	< 2%	< 1%	Good
QUARTZ	7	Spherical	2.65	White	100%	< 2%	Fair
ZIRCON	7.5	Cubical	4.58	Tan	< 5%	< 1%	Good
EMERY	8	Angular	4	Reddish Brown	< 1%	< 1%	Good
ALUMINUM OXIDE	9	Cubical	3.8	Brown	< 1%	< 1%	Very Good
SILICON CARBIDE	9	Cubical	3.13	Black	< 1%	< 1%	Good
DIAMONDS	10	Cubical	3.5	Yellow	< 1%	< 1%	Excellent