

Updated 04/29/2022 – “draft” status periodic refinement planned.

Values are relative to each other. Suggested changes can be emailed to contact@d-nail.com

No attempt has been made to adjust for variations in material properties by temperature.

Material	Flavor (*1)	Heat Retention	Shock Value	Durability (aside from shock)	Ease of Cleaning	Price
Titanium	3?	6	7	7	5	\$
Glass						\$
Borosilicate	4	4.5	7	5	5	\$\$
Quartz	5	5	9.7	6	5	\$\$\$
Opal	5	4.5	Variable?		4.5	\$\$
Ceramic						
Alumina	3		4	6	3	\$
SiC (*2)	7	6	7.5	8	7.5	\$\$\$
AlN (*3)	6	5.5	7	7	3	\$\$
Shinju™	7	9	6.5	8	6	-\$\$\$\$
Crystal						
Sapphire (*4)	8	8	2	9	4	\$\$\$
Polycrystalline SiC	8	6.2	8	8	8.5	\$\$\$
Moissanite	9.2	6.3	8	9.5	8.5	\$\$\$\$
Monocrystalline SiC	9.5	6.5	9.2	10	9	\$\$\$\$\$
Diamondium™	9.6	6.5	9	9.8	9	\$\$\$\$\$

*1 Flavor – Rated as we can. Additional reference material to further explain is under construction.

*2 Sintered silicon carbide is produced in a wide array of quality with notably different properties. Lower grades

*3 Aluminum Nitride, which we do not use, is coated in an aluminum oxide shell – actual material properties by how oxidized are difficult to determine.

*4 Corundum (sapphire in its pure form) does vary notably across its various alternate forms, but more by manufacturing quality

Unique distinction(s):

Titanium: Easily machined into complex shapes.

Borosilicate: Color. Ability to hand make shapes.

Quartz: Best shock value. Best thermal/chemical resistance of glass.

Opal: Pretty.

Alumina: Cheap.

SiC: Most well-rounded.

AlN: Hype.

Shinju: Best heat retention.

Sapphire: Best mix of heat retention and flavor.

Polycrystalline SiC: Best value of advanced materials.

Moissanite: Great value, glows at lower temperatures.

Monocrystalline SiC: Most durable.

Diamondium: Best flavor

