Titanium takes a very short amount of time to heat, 15-25 seconds. Ceramic nails take the longest to heat, around 30 seconds or longer. Out of the three, quartz takes the least amount of time to heat, around 5-10 seconds.

Titanium has great heat retention. It can hold heat for a long amount of time. Ceramic can hold heat for the longest amount of time out of all three nails. Quartz doesn’t have great heat retention. It can’t hold heat for a very long time.

The titanium used for nails isn’t medical or food grade. The buyer will have to season the nail. The ceramic used for nails is food and medical grade, so it is safe to use. Quartz nails will not emit harmful gases because it is food/medical grade.

A titanium nail will never break no matter how much you heat it or drop it. Ceramic is prone to heat stress and in rare situations it can fracture. Quartz can break from over heating or other forces (being dropped, etc).

Some prefer the durability of titanium nails, others like the quick heating quartz, and some love the heat retention of ceramic. Choosing the perfect nail is all based on the buyer’s needs and preferences.