
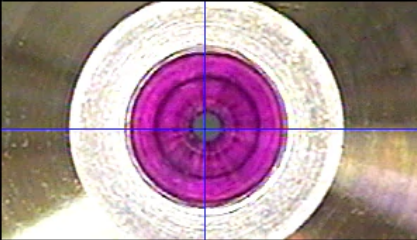
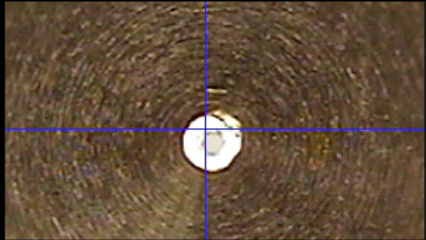


1. Brass nozzle: cost-effective
2. Electroplated copper nozzle: corrosion resistant, high temperature resistant, durable, suitable for high temperature 3D printing that other nozzle cannot handle
3. Ruby nozzle: Higher Temperature Resistance, Higher Wear Resistance, Non-Stick, Better Durability, Suitable for printing PLA, ABS, TPU, PA, PEEK, PEI, Carbon Fiber, Fiberglass and all other material.

## Production technology material selection

Material		
Production equipment	High-precision imported professional equipment to better ensure product consistency.	Ordinary domestic equipment
Production steps	One-time clamping, continuous processing, one step in place. Better guarantee the concentricity and precision of the bore.	Multiple clamping and manual exchange. Concentricity and accuracy are difficult to control.
Deburring treatment	Four major processes, strict quality assurance. No burrs, anti-oxidation and clean surface.	Easy oxidation / burr still exists

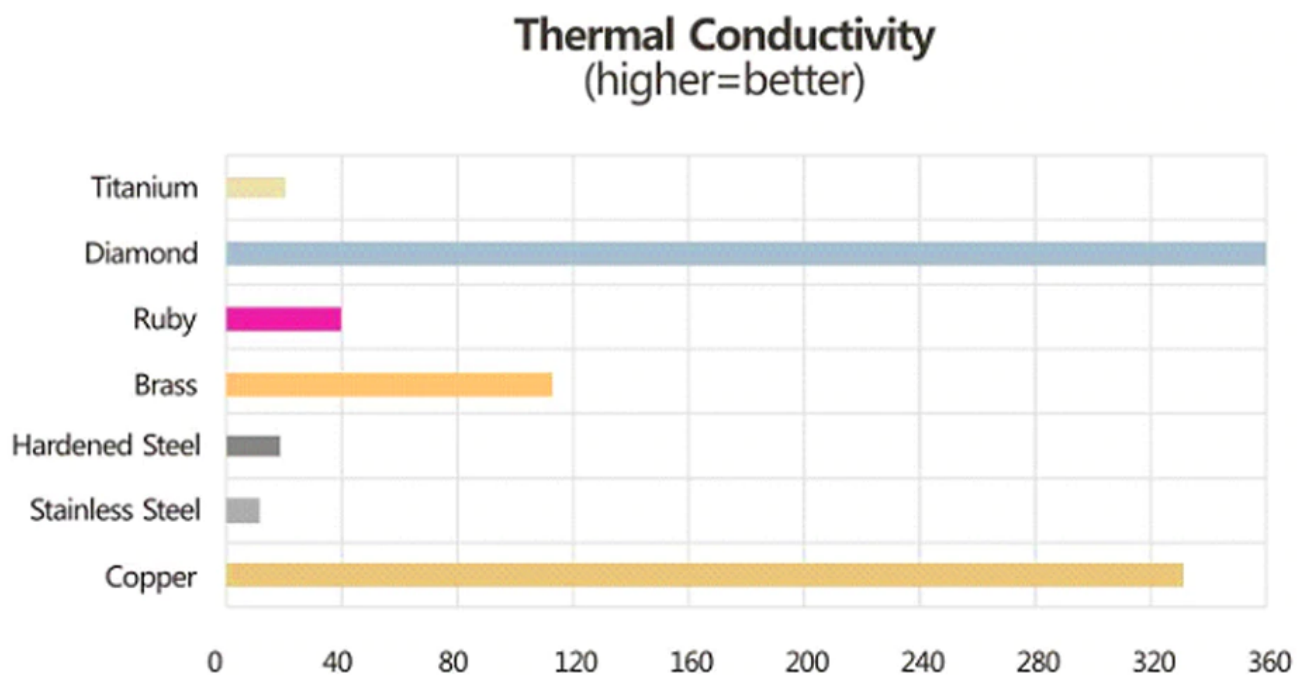
THE FOLLOWING NOZZLES ARE COMPARED WITH 0.4MM CALIBER

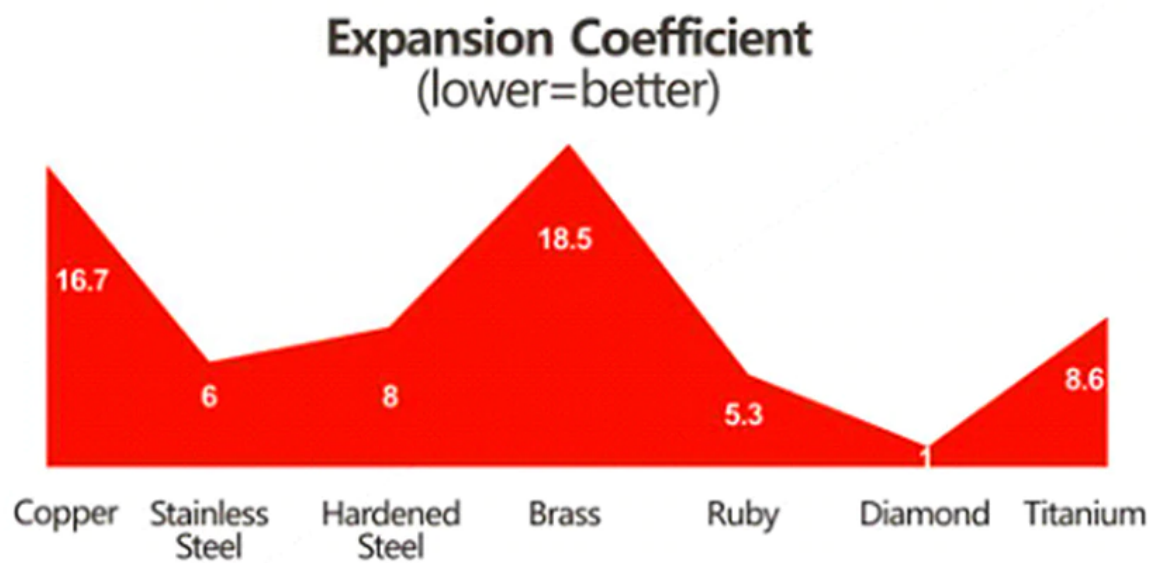
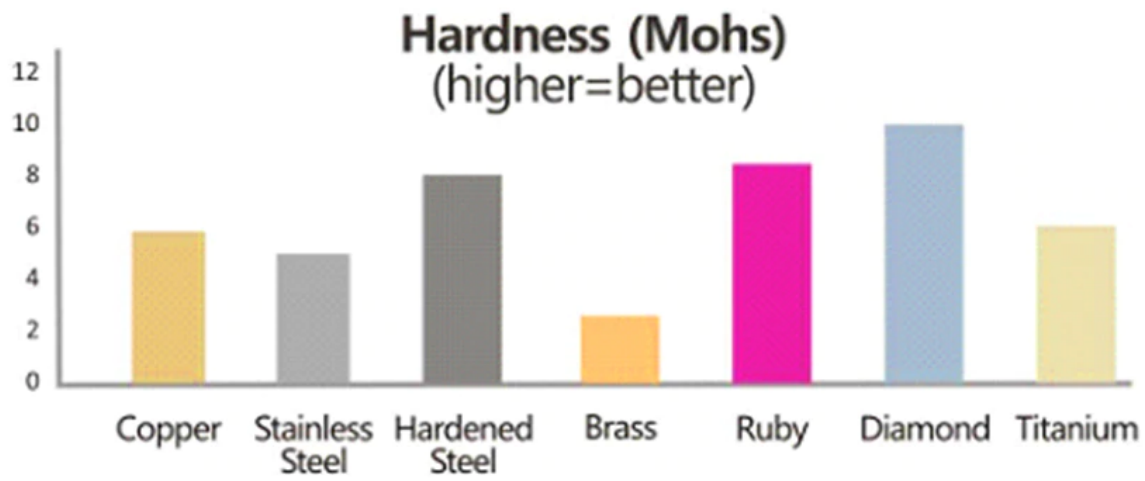
Nozzle enlargement projection	There are no obvious burrs in the inner hole, and spit out filament is more smooth	More internal burrs, easy to block the filament
		
Inner hole size	Measured value: 0.392mm (Tolerance control±0.01mm)	Measured value: 0.4373mm

Nozzle Performance Comparison

Type	Thermal Conductivity (W/m.k)	Hardness (Mohs)	Maximum Printing Temperature	Coefficient of Thermal Expansion (μm/m · °C)	Applicable Materials
Brass Nozzle	105	3.0	300	18.0	PLA,ABS,TPU, PA,etc
Stainless Steel Nozzle	17	5.0	350	6.0	Food,Pills,etc
Copper Plated Nozzle	330	6.0	500	16.7	PEEK, PEI, Carbon Fiber, Fiberglass, Wood Fiber, Metal Fiber, etc
Hardened Steel Nozzle(Blackened)	22	7.8	450	8.0	
Hardened Steel Nozzle(Nickel Plated)	20	7.8	450	8.0	
Hardened Stainless Steel Nozzle	18	8.0	450	6.0	
Ruby Nozzle	45	9.0	500	5.3	For All Materials

# Material Comparison







# Super Hard

High Wear Resistance, Long Durability



# High Temperature Resistance

The Highest Printing Temperature 550°C +



# Non-Stick

Roughness of Inner Hole & Body  $\leq Ra0.012$





# Excellent Precision Production

Patented Design, Tolerance of Hole  $\pm 0.006\text{mm}$ , High Printing Accuracy



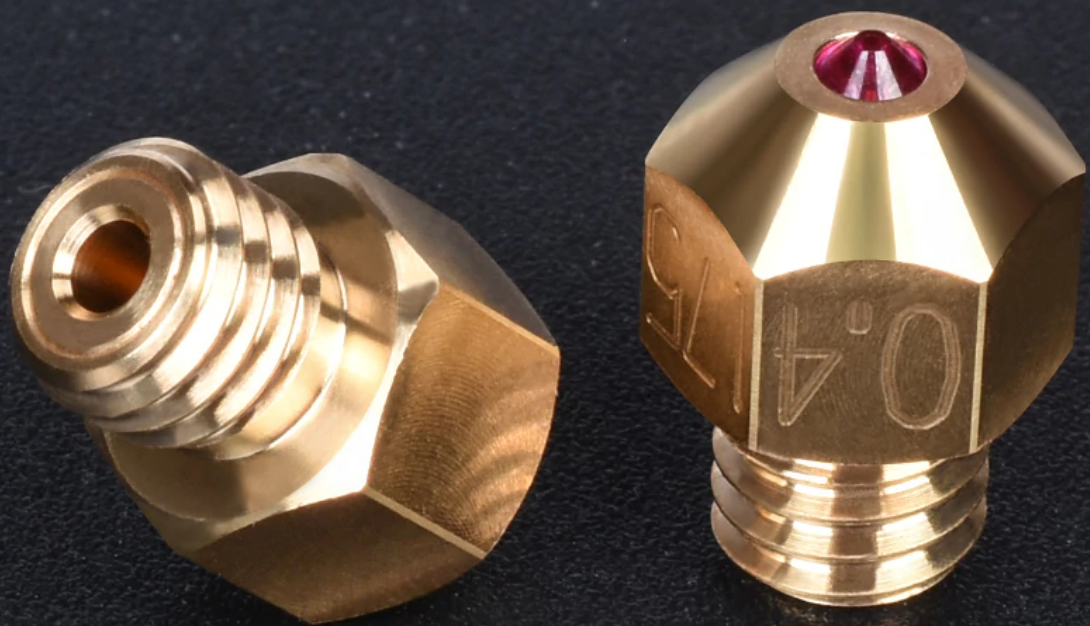
## Please note

- 1.The corresponding model of the ruby nozzle is MK8.  
The body of the nozzle is brass, the gemstone is artificial gemstone.
- 2.A torque wrench is required during the installation of the nozzle. The nozzle is subjected to a maximum torque of 5 N.m. Exceeding this torque will damage the brass inlay. If you don't have a torque wrench. Then it doesn't matter. Don't use too much force during the installation process, please try to control your strength.

# Product Details













# What's in the box?

Ruby Nozzle-MK8

