

[Material Data Sheet]

Sterling Silver 925 Precious Metal







After Sintering After Sintering + Pin Finishing After Sintering + HIP + Polish

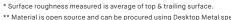
MECHANICAL PROPERTIES				
		Production System™	Production System™	Production System™
	Standard	After Sintering	After Sintering + Polish	After Sintering + HIP + Polish
Density (g/cm³)	ASTM 962-17	10.02	10.02	10.05
Surface roughness *.** (µm)	40TM D044	2.89 ± 0.4	0.05 ± 0.01	0.04 ± 0.01
Top value, trailing value	ASTM B311	7.36 ± 0.9	0.1 ± 0.01	0.11 ± 0.01
UTS (MPa)	ASTM E8M	183.53 ± 28	-	-
Material removal (g)	DM	-	0.262	0.23
Average, largest pore size (µm)	DM	30, 35	24, 30	22, 27
Prong strength (deg) ****	DM	75	-	-
Ring crush strength (Mpa)	ASTM B939-15	500 ± 100	_	_

COMPOSITION % (AISI/SAE 4140)		
Ag	92.5	
Cu	7.5	
ATTRIBUTES & APPLICATIONS		
Jewelry		
Wearables		
Consumer electronics		
Communications		

Material, Printing, Debinding & Sintering specifications provided upon acquisition of machine.

Material, Printing, Debinding, Sintering, HIP and Polishing specifications provided upon acquisition of machine + powder procurement agreement with Formula 3D.

PREFERRED MATERIAL PARTNER



 $^{^{\}star\star}$ Material is open source and can be procured using Desktop Metal specification.



^{***} Contract manufacturing is also available through Formula 3D.

^{****} Angle subtended before crack initiates