

Wieland Simidur S 2 PFM Alloy

Category : Metal , Nonferrous Metal , Precious Metal , Palladium Alloy

Material Notes:

Palladium-base ceramic alloy
Applications: crowns, short span bridges, long span bridges, telescopic and milling work, removable partials, ceramic veneering, acrylic veneering
Dental

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wieland-Simidur-S-2-PFM-Alloy.php

Physical Properties	Metric	English	Comments
Density	11.2 g/cc	0.405 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	410	410	HV5/30; after porcelain firing
	450	450	HV5/30; hardened
Tensile Strength, Yield	909.76 MPa	131950 psi	after porcelain firing
	@Strain 0.200 %	@Strain 0.200 %	
	989.74 MPa	143550 psi	hardened
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Break	2.0 %	2.0 %	hardened
	4.0 %	4.0 %	after porcelain firing
Modulus of Elasticity	122 GPa	17700 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	14.2 $\mu\text{m}/\text{m}\cdot\text{°C}$	7.89 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 25.0 - 500 °C	@Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	9.5 %	9.5 %	
Gallium, Ga	9.0 %	9.0 %	
Germanium, Ge	0.50 %	0.50 %	
Gold, Au	2.0 %	2.0 %	
Palladium, Pd	79 %	79 %	

Processing Properties	Metric	English	Comments
Processing Temperature	849 °C	1560 °F	Preheating Temp.
Melt Temperature	1100 - 1190 °C	2010 - 2170 °F	
Casting Temperature	1340 °C	2440 °F	

Descriptive Properties	Value	Comments
Color	white	

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