

Wieland Simidur S 1S 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-1S-PFM-Alloy.php

Physical Properties	Metric	English	Comments
Density	11.3 g/cc	0.408 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	270	270	HV5/30; after porcelain firing
	280	280	HV5/30; hardened
Tensile Strength, Yield	560 MPa @Strain 0.200 %	81200 psi @Strain 0.200 %	after porcelain firing
	600 MPa @Strain 0.200 %	87000 psi @Strain 0.200 %	hardened
Elongation at Break	6.0 %	6.0 %	hardened
	9.0 %	9.0 %	after porcelain firing
Modulus of Elasticity	126 GPa	18300 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	14.8 µm/m-°C	8.22 µin/in-°F	
	@Temperature 25.0 - 500 °C	@Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Gallium, Ga	2.0 %	2.0 %	
Indium, In	1.0 %	1.0 %	
Palladium, Pd	56 %	56 %	
Ruthenium, Ru	<= 0.10 %	<= 0.10 %	
Silver, Ag	32 %	32 %	

Component Elements Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
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Processing Temperature	849 °C	1560 °F	Preheating Temp.
Melt Temperature	1080 - 1200 °C	1980 - 2190 °F	
Casting Temperature	1350 °C	2460 °F	

Descriptive Properties	Value	Comments
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Color	white	
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