

Wieland Simidur KF Plus 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-KF-Plus-PFM-Alloy.php

Physical Properties	Metric	English	Comments
Density	10.5 g/cc	0.379 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	300	300	HV5/30; after porcelain firing
	350	350	HV5/30; hardened
Tensile Strength, Yield	640 MPa @Strain 0.200 %	92800 psi @Strain 0.200 %	after porcelain firing
	800 MPa @Strain 0.200 %	116000 psi @Strain 0.200 %	hardened
Elongation at Break	14 %	14 %	hardened
	22 %	22 %	after porcelain firing
Modulus of Elasticity	120 GPa	17400 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	13.8 µm/m-°C	7.67 µin/in-°F	
	@Temperature 25.0 - 500 °C	@Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Gallium, Ga	6.0 %	6.0 %	
Indium, In	6.0 %	6.0 %	
Palladium, Pd	79.7 %	79.7 %	
Ruthenium, Ru	0.30 %	0.30 %	
Silver, Ag	2.0 %	2.0 %	

Component Elements Properties	Metric	English	Comments
Zinc, Zn	2.0 %	2.0 %	

Processing Properties	Metric	English	Comments
Processing Temperature	849 °C	1560 °F	Preheating Temp.
Melt Temperature	1100 - 1260 °C	2010 - 2300 °F	
Casting Temperature	1400 °C	2550 °F	

Descriptive Properties	Value	Comments
Color	white	

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