

Wieland Simidur Superior 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 partialsDental

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	11.7 g/cc	0.423 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	200	200	HV5/30; after porcelain firing
	230	230	HV5/30; hardened
Tensile Strength, Yield	378.9 MPa @Strain 0.200 %	54960 psi @Strain 0.200 %	after porcelain firing
	519.5 MPa @Strain 0.200 %	75350 psi @Strain 0.200 %	hardened
Elongation at Break	17 %	17 %	hardened
	34 %	34 %	after porcelain firing
Modulus of Elasticity	113 GPa	16400 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	14.5 µm/m-°C	8.06 µin/in-°F	
	@Temperature 25.0 - 500 °C	@Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Gold, Au	63.5 %	63.5 %	
Silver, Ag	23.4 %	23.4 %	

Processing Properties	Metric	English	Comments
Processing Temperature	849 °C	1560 °F	Preheating Temp.
Melt Temperature	1210 - 1290 °C	2210 - 2350 °F	

Processing Properties	Metric	English	Comments
Casting Temperature	1400 °C	2000 °F	

Descriptive Properties	Value	Comments
Color	white	

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