

Wieland Porta SMK 82 PFM Alloy

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

Material Notes:

Gold-palladium 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-Porta-SMK-82-PFM-Alloy.php

Physical Properties	Metric	English	Comments
Density	15.0 g/cc	0.542 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	250	250	HV5/30; after porcelain firing
	280	280	HV5/30; hardened
Tensile Strength, Yield	520 MPa @Strain 0.200 %	75400 psi @Strain 0.200 %	after porcelain firing
	569.9 MPa @Strain 0.200 %	82650 psi @Strain 0.200 %	hardened
Elongation at Break	8.0 %	8.0 %	hardened
	11 %	11 %	after porcelain firing
Modulus of Elasticity	120 GPa	17400 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	13.9 $\mu\text{m}/\text{m}\cdot\text{°C}$	7.72 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 25.0 - 500 °C	@Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Gallium, Ga	1.5 %	1.5 %	
Gold, Au	57.5 %	57.5 %	
Indium, In	8.0 %	8.0 %	
Palladium, Pd	31.4 %	31.4 %	
Platinum, Pt	1.5 %	1.5 %	

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	1090 - 1240 °C	2000 - 2270 °F	
Casting Temperature	1390 °C	2530 °F	

Descriptive Properties	Value	Comments
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Color	white	
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