

Wieland Porta P6 PFM Alloy

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

Material Notes:

Gold-platinum-palladium ceramic alloy Applications: crowns, short span bridges, long span bridges, telescopic and milling work, ceramic veneering, acrylic veneeringDental

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wieland-Porta-P6-PFM-Alloy.php

Physical Properties	Metric	English	Comments
Density	18.0 g/cc	0.650 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	220	220	HV5/30; after porcelain firing
	230	230	HV5/30; hardened
Tensile Strength, Yield	570.0 MPa @Strain 0.200 %	82670 psi @Strain 0.200 %	after porcelain firing
	680.00 MPa @Strain 0.200 %	98625 psi @Strain 0.200 %	hardened
Elongation at Break	4.0 %	4.0 %	hardened
	6.0 %	6.0 %	after porcelain firing
Modulus of Elasticity	108 GPa	15700 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	14.0 µm/m-°C	7.78 µin/in-°F	
	@Temperature 25.0 - 500 °C	@Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Gold, Au	78 %	78 %	
Indium, In	4.0 %	4.0 %	
Iridium, Ir	0.10 %	0.10 %	
Palladium, Pd	8.0 %	8.0 %	
Platinum, Pt	9.8 %	9.8 %	

Component Elements Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
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Processing Temperature	799 °C	1470 °F	Preheating Temp.
Melt Temperature	1110 - 1200 °C	2030 - 2190 °F	
Casting Temperature	1350 °C	2460 °F	

Descriptive Properties	Value	Comments
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Color	white	
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