

Wieland Porta Aurium 2 PFM Alloy

Category : Metal , Nonferrous Metal , Precious Metal , Silver Alloy

Material Notes:

All-purpose alloy for low-fusing high expanding ceramics Applications: inlays/onlays, crowns, short span bridges, long span bridges, telescopic and milling works, removable partials, ceramic veneering, acrylic veneeringDental

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wieland-Porta-Aurium-2-PFM-Alloy.php

Physical Properties	Metric	English	Comments
Density	14.2 g/cc	0.513 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	190	190	HV5/30; after porcelain firing
	210	210	HV5/30; hardened
Tensile Strength, Yield	460.00 MPa @Strain 0.200 %	66717 psi @Strain 0.200 %	after porcelain firing
	530.0 MPa @Strain 0.200 %	76870 psi @Strain 0.200 %	hardened
Elongation at Break	7.0 %	7.0 %	hardened
	13 %	13 %	after porcelain firing
Modulus of Elasticity	105 GPa	15200 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.6 µm/m-°C	9.22 µin/in-°F	
	@Temperature 25.0 - 500 °C	@Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Gold, Au	57.1 %	57.1 %	
Indium, In	3.0 %	3.0 %	
Palladium, Pd	9.0 %	9.0 %	
Ruthenium, Ru	0.40 %	0.40 %	
Silver, Ag	30.5 %	30.5 %	

Processing Properties	Metric	English	Comments
Processing Temperature	799 °C	1470 °F	Preheating Temp.
Melt Temperature	1050 - 1110 °C	1920 - 2030 °F	
Casting Temperature	1250 °C	2280 °F	

Descriptive Properties	Value	Comments
Color	yellow	

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