

## Wieland Euro 50 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, ceramic veneering, acrylic veneeringDental

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Wieland-Euro-50-PFM-Alloy.php](http://www.lookpolymers.com/polymer_Wieland-Euro-50-PFM-Alloy.php)

Physical Properties	Metric	English	Comments
Density	14.1 g/cc	0.509 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	210	210	HV5/30; after porcelain firing
	240	240	HV5/30; hardened
Tensile Strength, Yield	489.9 MPa @Strain 0.200 %	71050 psi @Strain 0.200 %	after porcelain firing
	529.9 MPa @Strain 0.200 %	76850 psi @Strain 0.200 %	hardened
Elongation at Break	12 %	12 %	hardened
	14 %	14 %	after porcelain firing
Modulus of Elasticity	114 GPa	16500 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	14.7 µm/m-°C	8.17 µin/in-°F	
	@Temperature 25.0 - 500 °C	@Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Gold, Au	51.5 %	51.5 %	
Indium, In	0.90 %	0.90 %	
Palladium, Pd	26.6 %	26.6 %	
Ruthenium, Ru	0.10 %	0.10 %	
Silver, Ag	18.2 %	18.2 %	

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	1200 - 1280 °C	2190 - 2330 °F	
Casting Temperature	1400 °C	2550 °F	

Descriptive Properties	Value	Comments
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Color	white	
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## Contact Songhan Plastic Technology Co.,Ltd.

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