

## Wieland Porta Geo Ti PFM Alloy

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

### Material Notes:

Gold-platinum ceramic alloy  
Applications: inlays/onlays, crowns, short span bridges, long span bridges, telescopic and milling works, removable partials, ceramic veneering, acrylic veneering  
Dental

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Wieland-Porta-Geo-Ti-PFM-Alloy.php](http://www.lookpolymers.com/polymer_Wieland-Porta-Geo-Ti-PFM-Alloy.php)

Physical Properties	Metric	English	Comments
Density	18.5 g/cc	0.668 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	200	200	HV5/30; after porcelain firing
	210	210	HV5/30; hardened
Tensile Strength, Yield	520 MPa	75400 psi	after porcelain firing
	@Strain 0.200 %	@Strain 0.200 %	
	569.9 MPa	82650 psi	hardened
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Break	3.0 %	3.0 %	hardened
	4.0 %	4.0 %	after porcelain firing
Modulus of Elasticity	109 GPa	15800 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	14.1 µm/m-°C	7.83 µin/in-°F	
	@Temperature 25.0 - 500 °C	@Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Gold, Au	77.4 %	77.4 %	
Platinum, Pt	18 %	18 %	
Rhodium, Rh	0.50 %	0.50 %	
Silver, Ag	2.0 %	2.0 %	
Titanium, Ti	0.30 %	0.30 %	

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	1060 - 1140 °C	1940 - 2090 °F	
Casting Temperature	1300 °C	2370 °F	

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

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