

Wieland Porta AB 76 Casting Alloy

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

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wieland-Porta-AB-76-Casting-Alloy.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	160	160	HV5/30; after porcelain firing
	190	190	HV5/30; hardened
Tensile Strength, Yield	400.00 MPa @Strain 0.200 %	58015 psi @Strain 0.200 %	after porcelain firing
	510.00 MPa @Strain 0.200 %	73969 psi @Strain 0.200 %	hardened
Elongation at Break	5.0 %	5.0 %	hardened
	10 %	10 %	after porcelain firing
Modulus of Elasticity	102 GPa	14800 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	14.3 µm/m-°C	7.94 µin/in-°F	
	@Temperature 25.0 - 500 °C	@Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	0.40 %	0.40 %	
Gold, Au	84.5 %	84.5 %	
Indium, In	1.0 %	1.0 %	
Iridium, Ir	0.10 %	0.10 %	
Iron, Fe	0.20 %	0.20 %	

Component Elements Properties	Metric	English	Comments
Platinum, Pt	8.3 %	8.3 %	
Silver, Ag	0.50 %	0.50 %	
Tin, Sn	0.50 %	0.50 %	

Processing Properties	Metric	English	Comments
Processing Temperature	799 °C	1470 °F	Preheating Temp.
Melt Temperature	1060 - 1180 °C	1940 - 2160 °F	
Casting Temperature	1330 °C	2430 °F	

Descriptive Properties	Value	Comments
Color	pale yellow	

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