

Wieland BioPortadur Casting Alloy

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

Material Notes:

Gold casting alloy Applications: inlays/onlays, crowns, short span bridges, long span bridges, telescopic and milling works, removable partials, acrylic veneeringDental

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wieland-BioPortadur-Casting-Alloy.php

Physical Properties	Metric	English	Comments
Density	18.2 g/cc	0.658 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	170	170	HV5/30; as cast
	220	220	HV5/30; hardened
Tensile Strength, Yield	309.9 MPa @Strain 0.200 %	44950 psi @Strain 0.200 %	as cast
	509.9 MPa @Strain 0.200 %	73950 psi @Strain 0.200 %	hardened
Elongation at Break	5.0 %	5.0 %	hardened
	10 %	10 %	as cast
Modulus of Elasticity	99.0 GPa	14400 ksi	

Component Elements Properties	Metric	English	Comments
Gold, Au	85.3 %	85.3 %	
Indium, In	1.0 %	1.0 %	
Platinum, Pt	10 %	10 %	
Rhodium, Rh	0.70 %	0.70 %	
Zinc, Zn	3.0 %	3.0 %	

Processing Properties	Metric	English	Comments
Processing Temperature	699 °C	1290 °F	Preheating Temp.
Melt Temperature	971 - 1070 °C	1780 - 1960 °F	

Casting Temperature Processing Properties	1220 °C Metric	2230 °F English	Comments
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Descriptive Properties	Value	Comments
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Color	yellow	
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