

Wieland Auropal 1 Casting Alloy

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

Material Notes:

Gold-silver 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-Auropal-1-Casting-Alloy.php

Physical Properties	Metric	English	Comments
Density	14.3 g/cc	0.517 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	260	260	HV5/30; as cast
	260	260	HV5/30; hardened
Tensile Strength, Yield	680 MPa @Strain 0.200 %	98600 psi @Strain 0.200 %	as cast
	680 MPa @Strain 0.200 %	98600 psi @Strain 0.200 %	hardened
Elongation at Break	10 %	10 %	as cast
	10 %	10 %	hardened
Modulus of Elasticity	101 GPa	14600 ksi	

Component Elements Properties	Metric	English	Comments
Copper, Cu	12 %	12 %	
Gold, Au	63.4 %	63.4 %	
Iridium, Ir	<= 0.10 %	<= 0.10 %	
Palladium, Pd	3.0 %	3.0 %	
Platinum, Pt	0.50 %	0.50 %	
Silver, Ag	19.5 %	19.5 %	
Zinc, Zn	1.5 %	1.5 %	

Processing Properties	Metric	English	Comments
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Processing Temperature Processing Properties	699 °C Metric	1290 °F English	Preheating Temp. Comments
Melt Temperature	871 - 910 °C	1600 - 1670 °F	
Casting Temperature	1060 °C	1940 °F	

Descriptive Properties	Value	Comments
Color	yellow	

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