

Wieland Auropal 50 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, acrylic veneeringDental

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wieland-Auropal-50-Casting-Alloy.php

Physical Properties	Metric	English	Comments
Density	13.4 g/cc	0.484 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	270	270	HV5/30; as cast
	270	270	HV5/30; hardened
Tensile Strength, Yield	689.96 MPa @Strain 0.200 %	100070 psi @Strain 0.200 %	as cast
	729.95 MPa @Strain 0.200 %	105870 psi @Strain 0.200 %	hardened
Elongation at Break	6.0 %	6.0 %	as cast
	8.0 %	8.0 %	hardened
Modulus of Elasticity	104 GPa	15100 ksi	

Component Elements Properties	Metric	English	Comments
Copper, Cu	12 %	12 %	
Gold, Au	50 %	50 %	
Palladium, Pd	4.9 %	4.9 %	
Silver, Ag	32 %	32 %	

Processing Properties	Metric	English	Comments
Processing Temperature	699 °C	1290 °F	Preheating Temp.
Melt Temperature	849 - 910 °C	1560 - 1670 °F	
Casting Temperature	1100 °C	2010 °F	

Descriptive Properties	Value	Comments
Color	yellow	

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