

Wieland Portagold Casting Alloy

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

Material Notes:

Gold casting alloy Applications: inlays/onlays, crownsDental

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	16.3 g/cc	0.589 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	110	110	HV5/30; as cast
	110	110	HV5/30; hardened
Tensile Strength, Yield	180.00 MPa	26107 psi	as cast
	@Strain 0.200 %	@Strain 0.200 %	
	180.00 MPa	26107 psi	hardened
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Break	35 %	35 %	as cast
	35 %	35 %	hardened
Modulus of Elasticity	92.0 GPa	13300 ksi	

Component Elements Properties	Metric	English	Comments
Copper, Cu	5.5 %	5.5 %	
Gold, Au	80 %	80 %	
Palladium, Pd	1.8 %	1.8 %	
Platinum, Pt	0.50 %	0.50 %	
Silver, Ag	11.7 %	11.7 %	
Zinc, Zn	0.50 %	0.50 %	

Processing Properties	Metric	English	Comments
Processing Temperature	699 °C	1290 °F	Preheating Temp.
Melt Temperature	938 - 999 °C	1720 - 1830 °F	

Processing Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Color		yellow	

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