

Wieland Simidur A PFM Alloy

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

Material Notes:

All-purpose alloy for low-fusing high expanding ceramics Applications: inlays/onlays, crowns, short span bridges, long span bridges, telescopic and milling works, removable partials, ceramic veneering, acrylic veneeringDental

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wieland-Simidur-A-PFM-Alloy.php

Physical Properties	Metric	English	Comments
Density	10.6 g/cc	0.383 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	220	220	HV5/30; after porcelain firing
	240	240	HV5/30; hardened
Tensile Strength, Yield	450.00 MPa @Strain 0.200 %	65267 psi @Strain 0.200 %	after porcelain firing
	470.00 MPa @Strain 0.200 %	68168 psi @Strain 0.200 %	hardened
Elongation at Break	10 %	10 %	hardened
	11 %	11 %	after porcelain firing
Modulus of Elasticity	95.0 GPa	13800 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.2 $\mu\text{m}/\text{m}\cdot\text{°C}$	9.00 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 25.0 - 500 °C	@Temperature 77.0 - 932 °F	

Component Elements Properties	Metric	English	Comments
Indium, In	1.3 %	1.3 %	
Palladium, Pd	39 %	39 %	
Silver, Ag	54.7 %	54.7 %	
Tin, Sn	2.0 %	2.0 %	
Zinc, Zn	3.0 %	3.0 %	

Processing Properties	Metric	English	Comments
Processing Temperature	850.0 °C	1562 °F	Preheating Temp.
Melt Temperature	1100 - 1170 °C	2012 - 2138 °F	
Casting Temperature	1300 °C	2372 °F	

Descriptive Properties	Value	Comments
Color	white	

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