

BRAZETEC High Purity Vacuum Brazing Materials



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BRAZETEC high purity vacuum brazing materials are applied in a variety of applications like vacuum interrupters, surge arresters, and X-ray tubes. For these applications the alloys have to fulfill the high requirements of low gas content and low content of elements which have a high vapor pressure.

Besides the wetting behavior of the brazing alloy on the base materials used, the joining quality depends also on a design suitable for brazing as well as on an appropriate brazing process. Typically, the recommended brazing temperature is above the liquidus temperature of the brazing material. Please do not hesitate to contact us for further information.

Alloy properties

	Melting Range acc. to DSC	Density	Coefficient of thermal Expansion	Thermal Conductivity*	Electrical Conductivity*	Young's Modulus*
	[°C]	[g/cm ³]	[x 10 ⁻⁶ 1/K]	[W/(m*K)]	[m/(Ω*mm ²)]	[GPa]
AgCu28	780	10.0	17.8	352	46.1	100
AgCu28Ni0.7	780 - 800	9.8	19.2			
AgCu28Ge2Co0.3	770 - 790	9.9	19.6			
AgCu26.6Pd5	800 - 820	9.8	22.0	215	26.0	120
AgCu31.5Pd10	820 - 840	9.8	17.5	150	19.0	140
AgCu20Pd15	845 - 870	10.2	22.0	100	15.0	140
AgCu21Pd25	900 - 950	9.8	17.5	80	8.0	140
CuAg40Ga10	725 - 830	9.3	19.6			
AgCu27In13	610 - 710	9.8	19.8		10.0	85
AgCu42Ni2	780 - 810	9.5	18.7			
AlSi11.7	593	2.7	23.6			

*Literature values

*Further alloy compositions on request