

High Purity Vacuum Brazing Materials



/ High Purity Vacuum Brazing Materials

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

Alloy properties

Alloy Composition	Melting Range		Density	Coefficient of thermal Expansion	Thermal Conductivity	Electrical Conductivity	Young's Modulus
	T _{Solidus} [°C]	T _{Liquidus} [°C]	[g/cm ₃]	[x 10 ⁻⁶ K ⁻¹]	[W/mK]	[1/Ω.m]	[GPa]
AlSi.11.7	593	593	2.7	23.8	176	–	–
AgCu27In13	620	712	9.7	33.0	–	10	85
AgCu26.6Pd5	798	824	10.1	22.0	185	26	120
AgCu28	780	780	10.0	17.8	352	46	100
AgCu28Ge2Co0.3	780*	780*	9.8	17.6	200	30	110
AgCu31.5Pd10	813	872	10.1	17.5	150	19	140
AgCu28Ni0.7	780	810	10.0	17.8	223	29	110
AgCu15	870	780	10.3	17.4	360	47	100
AgCu42Ni2	780	930	9.8	17.9	235	32	120
AgCu20Pd15	845	902	10.4	22.0	100	15	140
AgCu28Pd20	900	880	10.3	18.6	95	9.5	100
AgCu21Pd25	950	900	10.5	17.5	80	8	140
CuAg40Ga10	726	831	9.33	21.4	–	–	–

*according to DSC measurement