

# High Purity Vacuum Brazing Materials

## Alloy properties

ALLOY COMPOSITION	MELTING RANGE		WORKING TEMPERATURE	DENSITY	COEFFICIENT OF THERMAL EXPANSION	THERMAL CONDUCTIVITY	ELECTRICAL CONDUCTIVITY	YOUNG'S MODULUS
	T <sub>Solidus</sub> [°C]	T <sub>Liquidus</sub> [°C]	[°C]	[g/cm <sup>3</sup> ]	[x 10 <sup>-6</sup> K <sup>-1</sup> ]	[W/mK]	[1/Ω m]	[GPa]
AlSi11.7	560	593	593	2.7	23.8	176	-	-
AgCu27In13	618	712	712	9.7	33.0	-	10	85
AgCu26.6Pd5	798	817	817	10.1	22.0	185	26	120
AgCu28	780	794	794	10.0	17.8	352	46	100
AgCu28Ge2Co0.3	776	793	793	9.8	17.6	200	30	110
AgCu31.5Pd10	813	856	856	10.1	17.5	150	19	140
AgCu28Ni0.7	781	801	801	10.0	17.8	223	29	110
AgCu15	870-780		870	10.3	17.4	360	47	100
AgCu42Ni2	780	806	806	9.8	17.9	235	32	120
AgCu20Pd15	845	890	890	10.4	22.0	100	15	140
AgCu28Pd20	900-880		905	10.3	18.6	95	9.5	100
AgCu21Pd25	950-900		955	10.5	17.5	80	8	140
Ag	960		960	10.5	19.5	429	63	81



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