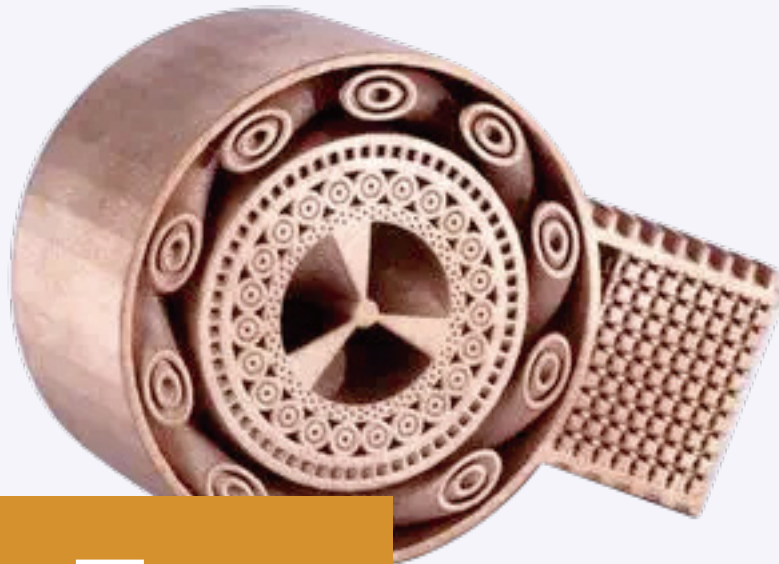
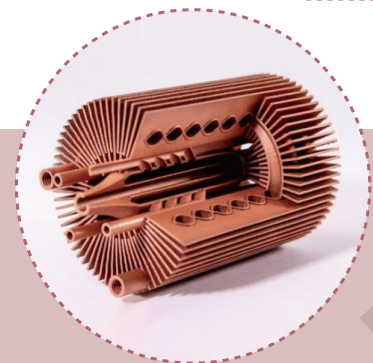




CuCrZr

Aluminum-based Alloy

CuCrZr is a precipitation hardened alloy with additions of chrome and zirconium. The alloy has very high electrical and thermal conductivity at good strength levels. The properties make the alloy suited for complicated technical application where a high conductivity is demanded, and the component is exposed to stresses and temperatures.



Advantage

- > High electrical conductivity
- > High thermal conductivity
- > Good strength
- > Excellent hot formability

Ideal Applications

- > E-mobility
- > Automotive
- > Connectors
- > Electrical engineering

Technical Datasheet

Cu (%)	Cr (%)	Zr (%)
rem	0.2–1.2	0.05–0.25

Melting point (°C)	Density (g/cm ³)	cp @ 20°C (kJ/kgK)	Young's modulus (GPa)	Thermal cond. (W/mK)	Electrical cond.		α @20–300°C (10 ⁻⁶ /K)
					(MS/m)	(%IACS)	
1081	8.94	0.383	136	330	≥50	≥86	18.6

	Tensile Strength (MPa)	Yield Strength (MPa)	Elongation A ₅₀ (%)	Hardness HV (–)	Bend ratio 90° (r)		Bend ratio 180° (r)	
					GW	BW	GW	BW
R480	480–560	≥450	≥10	150–190	0	0	1	1.5
R540	540–660	≥500	≥4	160–200	1	1	2	2.5
R540S	540–660	≥500	≥8	160–190	0	0	1	1.5
R600	≥600	≥550	≥2	≥160	2	2		

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