

Material Data Sheet C18150

Copper Alloy C18150

C18150, Copper Chromium Zirconium Alloys is a high conductive and high strength copper alloy.

Application

Additive manufactured C18150 has been used for electrodes, heat exchangers, and regeneratively cooled rocket combustion devices and nozzles.

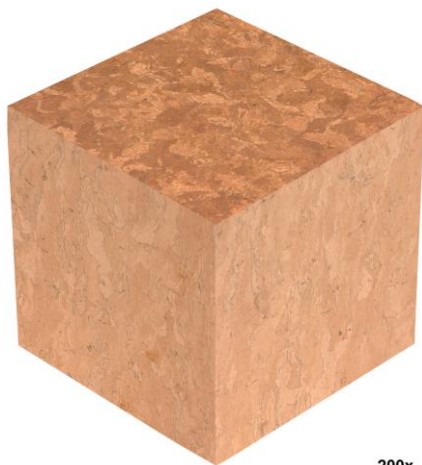
Chemical Composition

	Cu	Cr	Zr	Other
Wt%	Bal	0.5 - 1.5	0.02 - 0.20	

Properties

Materials Properties	Unit	Value	Notes
Yield Strength .2%	ksi / MPa	36 / 250	fully heat treated
Ultimate Tensile	ksi / MPa	55 / 380	fully heat treated
Elong	%	> 25	fully heat treated
R.A.	%	> 35	fully heat treated

This data sheet contains approximate values. These values are influenced by part's geometry, additives, and environmental influences. They were developed based on current experiences and knowledge. Therefore, the above-mentioned properties cannot be claimed legally binding nor can a definite purpose be derived.



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