

CREATOR Project A1: Induction Motor

### **Stator Winding Copper** Technical Specifications

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The subsequent data is referenced from [1]. This table is also provided as a .csv file in the same directory.

Parameter	Value
Density	8960 kg/m <sup>3</sup>
Melting Point	1083 °C
Thermal Expansion	16.9 e <sup>-6</sup> 1/K
Modulus of Elasticity	117 GPa
Thermal Conductivity	398 / W/m.k
Tensile Strength	200-360 Mpa
Specific Heat Capacity	385 J/Kg°C
Electrical Resistivity (room temperature)	1.68 e <sup>-6</sup> Ωm

[1] “Copper and Copper Alloys - Copper (Pure) - CW004A Sheet, Plate and Bar.”. [Online]. Available: [https://www.aalco.co.uk/datasheets/Copper-and-Copper-Alloys-CW004A-Sheet-Plate-and-Bar\\_32.ashx](https://www.aalco.co.uk/datasheets/Copper-and-Copper-Alloys-CW004A-Sheet-Plate-and-Bar_32.ashx)