

CREATOR Project A1: Induction Motor

**Rotor Cage and Cooling Jacket Aluminum** Technical Specifications: Typical Values **Aluminum 6082 / 3.2315 / Al- Si1Mg**

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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
Yield Strength	110 - 260 Mpa
Tensile Strength	205 - 310 Mpa
Elongation at Break	6 - 15 %
Hardness	65 - 95
Module of Elasticity	70 Gpa
Electrical Conductivity	24 - 32 m.Ω/mm <sup>2</sup>
Coefficient of Thermal Expansion	23.4
Specific Heat Capacity	896 J/ Kg.K
Density	2.7 g/cm <sup>3</sup>
Thermal Conductivity	170 - 220 W/mK

[1] “6082 Aluminum Alloy,” Xometry. [Online]. Available: <https://www.xometry.com/resources/materials/6082-aluminum-alloy/>