

# Aluminum materials can store electricity





## Overview

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The short answer is yes, aluminum does conduct electricity, but not as efficiently as copper. However, its lower cost and lighter weight make it a popular alternative in certain applications, such as power transmission lines and automotive wiring. This paper shall discuss the electrical conductivity of aluminum, its use in the electrical industry, and the benefits and. The inherent features of aluminum, both beneficial and detrimental, for electrical engineering are emphasized along with alloying concepts that provide the accelerated decomposition of matrix solid solution to minimize the electron scattering.



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