

# CONDUCTIVE GRAPHITE

## Invention Summary:

Sri Lanka (Ceylon) is the world's purest vein graphite producing country since the early 18<sup>th</sup> century. Graphite is found with a natural purity above 99% carbon at Kahatagaha and Ragedara mines which were world popular for centuries. Industrial Technology Institute discloses an innovative technology to produce conductive graphite in high volumes as a value addition to local mineral resources.

## Technology overview:

Conductivity of graphite with different values ranging from 1500-2300 S/m were produced from Sri Lankan vein graphite. ITI transfer the technology to graphite industry and the industry has commenced commercialization.

## Potential Applications:

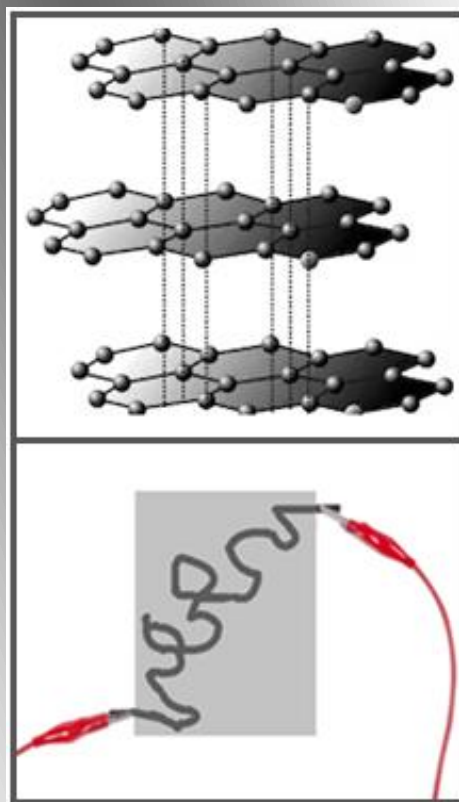
Lithium ion batteries, Advanced Lead Acid Batteries, Photovoltaics, Primary Batteries, Hybrid Material Industry, High Electrical Conductivity Requirements, Additives in Batteries, Polymers and Other Industries.

## Product Advantages:

- High conductivity enables high performance as an electrode material in primary and secondary batteries
- Cost effectiveness enable applicability propagates from the range of low to high-end industries
- High electrical conductivity drops contact resistance in electrical appliances

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