

SRI LANKAN GRAPHITE - 99.99%

Invention summary:

Sri Lanka (Ceylon) is the world's purest vein graphite producers since the early 18th century. Industrial Technology Institute disclosed an innovative technology to produce pure graphite up to 99.99% carbon as a value addition to graphite. Purification process is based on a physical and chemical method.

Technology overview:

The novel graphite purification technology was patented and led to National awards winning. The technology was transferred to graphite industry and commercial production is in progress.

Potential application:

Pure natural graphite can be used as primary and secondary battery material, energy, electronic and other high-end applications.

Advantages of the products:

- Bulk density - *ca.* 1.02 g/cm³
- Electrical conductivity (S/m) at 0.8MPa >2500 S/m
- Particle size (D50) < 500 μm
- Interlayer spacing - *ca.* 3.33 Å
- Purity (% carbon) > 99.99%

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