

## **A Novel process for the fabrication of Mg-30% SiC particle reinforced composites by casting route.**

The technology is aimed at producing Mg based SiC reinforced composite with superior mechanical and wear resistance properties. Use of light weight magnesium- Sic composites having high stiffness, high strength both at room temperature in transportation and space vehicles leading to reduced greenhouse emissions, saving of energy and conserving natural resources.

### **Salient Features:**

It is simpler and economic processes. Any Magnesium foundry can adopt this process and produce components.

Completely eliminates sulfur based toxic fumes used in conventional Mg casting process.

Eliminate the use of gas like SF<sub>6</sub> which is very deleterious for Ozone layer

### **Major Application / End Users**

Automotive and spacecraft components including Engine parts

Space based vehicles including satellites