# International Advanced Research Centre for Powder Metallurgy & New Materials (ARCI)

ए आर सी आई ARCI

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## **Compaction Processing of Ceramic Spools**

#### **Overview**

High purity are compaction processed in to alumina spools for high temperature applications. Centre produces spools on a continuous basis as per the orders from In-house and overseas.

#### **Key Features**

- Density greater than 99% of theoretical
- Complex die design
- Uniaxial compaction
- · Optimised sintering schedule
- High electrical resistance and moderate thermal shock



Digital photograph of uniaxial press used for pulleys compaction

### **Potential Applications**

- Heating elements winding pulleys
- High temperature furnace fixtures

#### **Intellectual Property Development Indices (IPDI)**

IPDI level: 10



Digital photograph of ceramic pulley

 Status
 1
 2
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