

RARE EARTH-IRON-BORON PERMANENT MAGNETS BY RAPID QUENCHING



This new class of high-performance permanent magnet materials is prepared by rapidly quenching molten alloy onto a polished copper wheel, then heat treating to obtain the desired properties.

Advantages of this new class of magnets include:

- Record high-magnetic energy densities, up to 50 MGOe
- Low cost, readily available starting materials
- Easy formability into complex shapes
- Relatively good corrosion resistance, which makes possible practical high-performance bonded magnets.

Magnets can create magnetic fields for the following applications:

- Motors
- Sensors
- Indicators
- Controllers

Patent licenses are available to companies with commercial interests.

Points of Contact

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