

CUMITHERM™

Reaction Sintered Aluminum Titanate

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CUMITHERM™ is ideally suited for Non-Ferrous Cast-houses and foundries due to its extraordinary properties of high thermal shock resistance, low thermal conductivity and non-wettability to most Non-ferrous molten metal. These properties are achieved by combining High purity Alumina and Titania in a precision controlled reaction sintered process to engineer a micro-porous microstructure.

Most CUMITHERM™ products are manufactured by ISO-STATIC pressing.

APPLICATIONS

- ◆ Feeders/Risers/Stalk for Low pressure Die casting
- ◆ Dosing tubes
- ◆ Sprue / Gate bushes, Cups & Connectors
- ◆ Casting spouts, flow rods, Retainer rings
- ◆ Nozzles, Crucibles
- ◆ Tap hole plugs & rings
- ◆ Customised special components
- ◆ Launderers
- ◆ Induction Heating

Salient Features	Key Benefits
Near zero thermal expansion / Thermal shock resistance	<ul style="list-style-type: none">- Longer service life,- Can be exposed to molten metal without pre-heating
Low thermal conductivity	<ul style="list-style-type: none">- Energy efficient process- Increased process reliability- Reduced freeze-offs- Improved yield levels
Non-wettability	<ul style="list-style-type: none">- Prevents Metal adhesion- Simplify cleaning- Increased machine availability
Chemical Inertness	<ul style="list-style-type: none">- Increased service life- Does not contaminate the melt, hence enhances product quality- Boosts plant efficiency