



The IDEA of
Future
Ceramic
Innovation
and
Automation



CeraCFM™ product solutions:
automation and pouring
consumables for foundry
applications

MAJOR BENEFITS

- Excellent mechanical strength
- No iron contamination, non-wetting, non-sticking
- Better performance, longer life and more durable
- Excellent erosion & crack resistance
- Available in customized sizes and capacity
- Highly insulating and low thermal conductivity
- Short pre-heating required before start

APPLICATION

1. Manual / Auto Pouring for GDC, HPDC
2. Thermocouple Protection for Holding, Melting



CeraCFM™ is a Ceramic covered Fabric Material, our patented molten metal transporting technology

Products offered: Auto Pouring Ladles, Manual Pouring Hand spoons / Ladles, Tilting GDC Saucers or cups, Dosing or Tundish Launderers, Pouring Funnels, Degassing Baffles, Degassing Tubes, PDC Feeder Tubes or connectors, Thermocouple Protection Tubes, Skimmers, Scrappers etc.

COMPARISON WITH COMPETITORS

Properties	CeraCFM	Solid Ceramic	Steel/ Cast Iron
Mechanical strength	Steel body + Ceramic Fabric. Excellent mechanical strength and properties, higher crack resistance.	Best insulator, but fragile. Mechanical damage can break it and cracks develop by improper pre-heating.	Strongest, but has the highest thermal conductivity.
Pre-heating	Very short pre-heating required	Requires slow pre-heating.	Repetitive and regular pre-heating required.
Metal contamination and sticking	Better non-wetting, non-sticking properties. No metal contamination, steel body covered with Ceramic Fabric.	Good non-wetting and non-sticking properties. Repetitive re-coating required.	Chances of Iron contamination. High metal sticking. Repetitive and regular re-coating required.
Operating life	More than 3 to 4 times more than other solutions.	Longest, but highest risk of breakage and crack.	Shortest, repetitive welding repairs required.
Improvements and benefits	Less scrap, less oxides or inclusions, energy efficient.	Thermal shock resistance is better than Steel & Cast iron.	No major benefits or improvements in process.

CeraCFM™ beats all other competitor solutions.



CeraCFM™ is a Ceramic covered Fabric Material, our patented molten metal transporting technology

CeraCFM™ properties:

Max working temperature: 800°C
Density: 1500 Kg/m³
Thermal Conductivity: 0.4 W/mK at 500°C
Thermal Expansion: 9×10^{-6} mm/mm °C
Hardness Shore D: 75
Cold Modulus Rapture: 16 MPa