

PYROPORE CERAMIC FOAM FILTERS

FOUNDRY CERAMIC FOAM FILTERS (CFFs)

Pyropore CFFs are high-quality filters used in molten aluminium, copper-based alloys, and ferrous metals including grey, ductile, and steel alloys (stainless steel included). The filters consist of impregnated foam in a controlled, open-pore filtration structure. Pyropore CFFs are efficient in removing oxides and non-metallic particles.

Partially Stabilized Zirconia (ZrO₂) Ceramic Filters

Light brown filters with a maximum temperature of 1704°C (3100°F). These filters are fully sintered ceramic material with excellent thermomechanical properties. Zirconia Ceramic filters can be used at in-gates, runners, tundishes, and in pouring cups for investment, sand, shell and permanent mould processes.

Silicon Carbide (SiC) Filters

Grey filters with a maximum temperature of 1500°C (2732°F). These filters have very good heat conductivity, stability and resistance to sudden temperature changes. Silicon Carbide filters can be used in the filtration chamber of a gating system and for direct pouring on the filter. They are commonly used in copper-based and ferrous alloys.

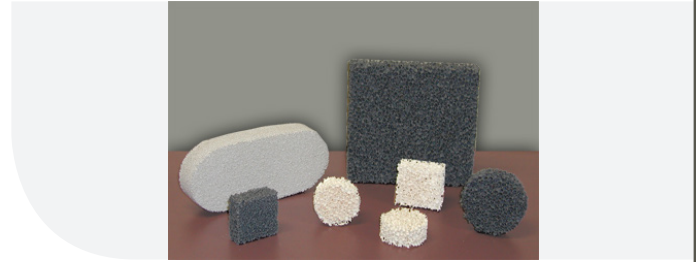
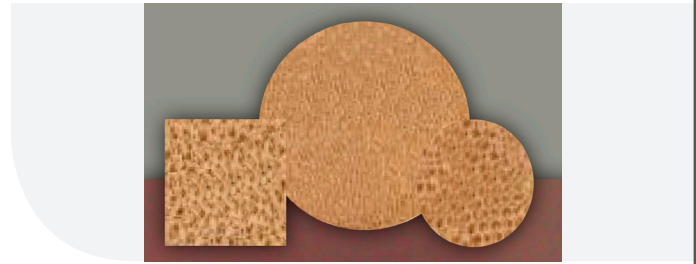
Aluminium Oxide (Al₂O₃) Filters

White filters with a maximum temperature of 1350°C (2462°F). These filters can be used in the filtration chamber of a gating system, and can be submerged in molten metal.

Note: Preheat the Aluminium Oxide filters (especially those with expansion gaskets) to 350–400°C (662–752°F) prior to casting. The heating should be evenly applied to the entire filter with electric or gas-based equipment.

Aluminium Oxide/Graphite

Dark grey to black filters with a maximum temperature of 850°C (1562°F). These filters are good for gravity casting into sand moulds and chills. Aluminium Oxide/Graphite filters are low density, have high thermal conductivity and low heat capacity which allows for quick priming at the beginning of a pour. These filters are typically used in aluminium alloys, but not in copper-based and ferrous alloys.



BENEFITS

- Easily installed
- Non-wetting
- Excellent hot strength
- Dimensionally stable
- Horizontal and vertical placement
- Molten aluminium resistant

APPLICATIONS

- Sand casting
- Investment casting
- Shell casting
- Low-pressure die casting
- Permanent mould casting
- Holding and transfer systems

AVAILABILITY

- Various pore sizes
- Standard and non-standard sizes

