

# THE CARBON BONDED FILTER™

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**An innovative filter material for temperature sensitive foundry applications**



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This unique carbon bonded alumina filter material is designed for use with temperature sensitive alloys. Its lower thermal mass and more open pore structure results in better priming than its zirconium oxide cousin. The enhanced primability of this filter may allow for reduced tap temperatures, resulting in lower energy costs, refractory wear, and fewer burn in defects in castings. In addition, the Carbon Bonded filter offers the traditional features of a reticulated foam filter, including capture of non-metallic inclusions and flow modification for a less turbulent mold fill. Finer pore sizes are available when high filtration efficiency is desired. The Carbon Bonded filter is an excellent addition to the Hi-Tech Ceramics family of products for producing clean castings.

## Types:

Carbon Bonded Filters are available;

- Squares and Rounds sizes up to 10"
- PPI (pores per inch) ranges from 10 ppi to 30 ppi
- Also available with Hi-Tech Ceramics's patented High Capacity Filter Design

## Capacities:

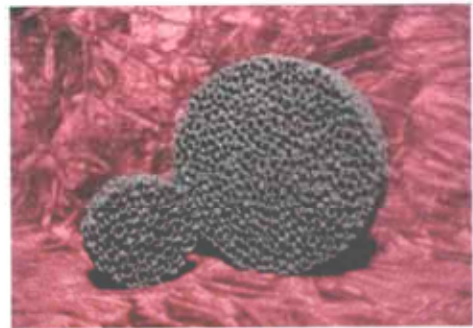
Metal fluidity, method of deoxidation and the pouring temperatures are the main variables affecting metal flow through filters.

### Standard Packaging

2" Round – 200 / box	2" x 2" Square – 200 / box
3" Round – 96 / box	3" x 3" Square – 80 / box
4" Round – 48 / box	4" x 4" Square – 48 / box

\*Alternative packaging available per request

\*Please contact your local technical specialist with any questions regarding this or any other Hi-Tech Ceramics products.



## Capacity for a Carbon Bonded Filter is:

- 50 pounds of metal per square inch of filter surface area

## Experienced flow rates for steels are:

- 2.5 pounds of metal per second per square inch of filter surface area

\*When melting carbon sensitive alloys, care should be taken when remelting gating systems containing Carbon Bonded Filters.

