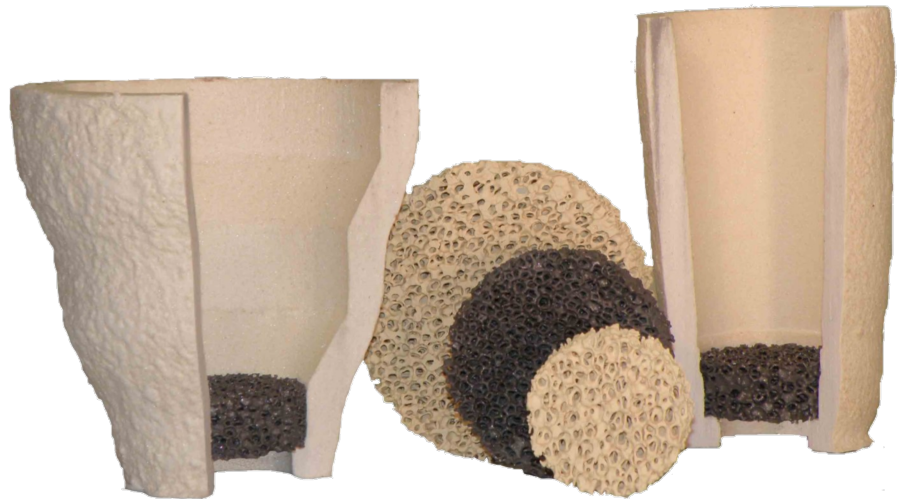




Filter Sleeves

Direct Pour



**Lower Production Costs
With Direct Pour Filter Sleeves**

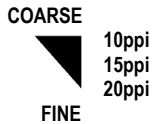




Reduce casting production costs by increasing yields with Filter Sleeves for direct pouring.



Filter Sleeves use advanced ceramic foam filters available for most metal types. Standard pore sizes include:



PPI will affect the filtering efficiency and flow rate of the metal. Please consult your Joy-Mark, Inc. or Distributor sales representative for assistance when selecting filter pore size.

Increasing metal yields and establishing greater production efficiencies are always objectives for a foundry looking to improve their bottom line. Joy-Mark, Inc. has introduced a new line of direct pour solutions to help foundries realize their profitability goals. Filter Sleeves utilize highly insulating and exothermic fiber pour cups, basins and shapes produced by Joy-Mark, Inc. with advanced reticulated ceramic foam filters of different ceramic compositions. The combination of these industry proven products into a Filter Sleeve allows for direct pouring and provides cost effective alternatives to traditional runner and gating system designs.

High Quality Ceramic Foam Filters

Filter Sleeves are available with a variety of ceramic foam filter options. Filters produced from different ceramic materials are available in different sizes and PPI configurations to best suit specific metal types or a range of metals poured in the foundry. From CFF LD that offers a low density "floating" filter for aluminum applications to CFF Z that offers a sintered Zirconia composition for high temperature steel applications, there are foam filters available to meet the needs of your direct pour applications.

| Features | Benefits |
|-------------------------------------|--|
| Eliminates Traditional Runners | Increases metal yield and reduces costs. |
| Reduces In-Gates | Lowers cleaning room costs. |
| Removes Impurities from Metal | Virtually eliminates inclusion defects. |
| Promotes Directional Solidification | Feeds the casting and reduces shrinkage. |
| Uses Less Metal | Pour more castings per heat. |
| Simple Design & Application | Lowers planning and design costs. |
| Improve Casting Quality | Less machining and improved cosmetics. |
| Many Sizes and Styles | Maximizes filtering capacity and flow rates. |

Insulating / Exothermic Sleeves

Filter Sleeves are available in Highly Insulating CF300 and CF300W compositions or Insulating/Exothermic CFX700 and CFX760 compositions. These premium fiber sleeve compositions are available to provide the best feeding characteristics with the riser in your direct pour application. The filter establishes laminar flow while filtering the the molten metal stream, and the sleeve behaves as a feeder to reduce shrinkage. Filter Sleeves help to achieve quality casting results with lower production costs.



FILTER SLEEVES

JOY-MARK Feeding Aids & Filters

CFF Z
Foundry Applications: Stainless and High Alloy Steels, Carbon and Low Alloy Steels, Other

CFF C
Foundry Applications: Stainless and High Alloy Steels, Carbon and Low Alloy Steels, Other

CFF SiC
Foundry Applications: Aluminum, Gray/Ductile Iron, Other

CFF LD
Foundry Applications: Aluminum

Call your Joy-Mark, Inc. or Distributor sales representative for more details.

Filter Sleeve Standard Styles & Sizes

| STYLES | SLEEVE SIZE | FILTER DIA. | STND FLTR THK | Z STND FLTR THK |
|----------|-----------------|-------------|---------------|-----------------|
| F-SLEEVE | 2" x 4" | 50mm (2") | 22mm (0.88") | 20mm (0.75") |
| F-SLEEVE | 2" x 5" | 50mm (2") | 22mm (0.88") | 20mm (0.75") |
| F-SLEEVE | 2" x 6" | 50mm (2") | 22mm (0.88") | 20mm (0.75") |
| F-SLEEVE | 2.5" x 6" | 62mm (2.5") | 22mm (0.88") | 20mm (0.75") |
| F-SLEEVE | 3" x 6", 3" PBS | 75mm (3") | 22mm (0.88") | 25mm (1.00") |
| F-SLEEVE | 4" x 6" | 100mm (4") | 22mm (0.88") | 25mm (1.00") |
| F-SLEEVE | 5" x 8" | 125mm (5") | 30mm (1.25") | 30mm (1.25") |
| F-SLEEVE | 6" x 9" | 150mm (6") | 30mm (1.25") | 30mm (1.25") |
| F-ROUND | 6" x 3" x 10" | 100mm (4") | 22mm (0.88") | 25mm (1.00") |
| F-ROUND | 7" x 3.5" x 12" | 150mm (6") | 30mm (1.25") | 30mm (1.25") |
| F-ROUND | 10" x 5" x 12" | 150mm (6") | 30mm (1.25") | 30mm (1.25") |

* INSULATING SLEEVES = CF300W, CF300; EXOTHERMIC SLEEVES = CFX700, CFX760 AVAILABLE FOR ALL SIZES. ** MANY OTHER CUSTOM SIZES AVAILABLE.

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