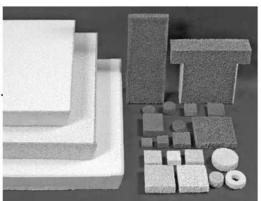


## TaoFil ® Ceramic Foam Filters

CERAMSOURCE offers a complete line of TaoFil ® ceramic foam filters for different kinds of metallurgical applications. The reticular shape of the filter provides a thorough and deep filtration to remove impurities in molten metal stream. ToaFil ceramic foam filters have excellent ability to resist high thermal shock while maintaining efficient filtration. They are widely used in sand, investment, shell and permanent molds for both ferrous and non-ferrous alloy filtration operations. Typical applications of TaoFil foam filters are categorized as follows:



TaoFil FCF-1: for steel cast industry - Temperature: 3000 °F TaoFil FCF-2: for iron cast industry - Temperature: 2700 °F

TaoFil FCF-3: for non-ferrous alloy and aluminum industry - Temperature: 2000 °F

## 1. TaoFil FCF-1

TaoFil FCF-1 filter is the most powerful and effective filtration technology to ensure high quality castings for molten metal industry. TaoFil FCF-1 filters are made from zirconiatoughened alumina (Al<sub>2</sub>O<sub>3</sub>). TaoFil FCF-1 filter is cream in color with no chemical binders. It has strong resistance against thermal shock and has proven effective at pouring temperatures up to 3000 °F. Typical application of TaoFil FCF-1 filter is for in-mold, tundish, pouring cup or baffle-type filtration.

## 2. TaoFil FCF-2

TaoFil FCF-2 filter is an economical solution to achieve effective molten metal filtration. Silicon carbide (SiC) is used as a distinctive element in the refractory mixture material to make TaoFil FCF-2 filters. Gray in color, TaoFil FCF-2 is a strong and durable foam filter, which can be used very effectively at pouring temperatures up to 2700 °F for gray & ductile iron casting applications.

## 3. TaoFil FCF-3

TaoFil FCF-3 filter is a common type of filtering tool for aluminum and non-ferrous alloy smelting industries. White in color, TaoFil FCF-3 is made from high purity alumina ( $Al_2O_3$ ). This kind of filter works at pouring temperatures up to 2000 °F by providing a deep bed filtration to remove large amount of impurities from aluminum melt while the reticular shape of the filter provides a thorough and deep filtration to remove impurities in molten aluminum or non-ferrous alloy stream. It has excellent ability to resist high thermal shock while maintaining efficient removal of impurities with continuous and thorough filtration.

Turn back for more specific product information.

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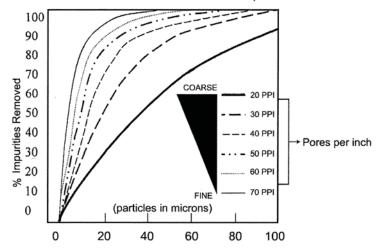
Filtor	Common	Thislenges	Dimonolono	Dorocitu	-dasa	Other Ontions
Filter Grades	Common Shapes	Thickness (inch)	Dimensions (inch)	Porosity (pores per inch)	Edges	Other Options
TaoFil	Square	0.5, 0.88,	Length: 1.5 - 8			Custom shapes,
FCF-1	Circle	1, 1.25,	Width: 1.5 - 8	10 ppi to 50 ppi	Straight	sizes and porosities
	Rectangular	1.5, 1.75	Diameter: 1 - 7			can be accommodated
TaoFil	Square	0.5, 0.88,	Length: 1.5 - 8			Custom shapes,
FCF-2	Circle	1, 1.25,	Width: 1.5 - 8	10 ppi to 50 ppi	Straight	sizes and porosities
	Rectangular	1.5, 1.75	Diameter: 1 - 7	3.6		can be accommodated
						Gasket
						1/8" & 1/4" ceramic
TaoFil	Square	0.5, 0.88,	Length: 1.5 - 23			paper and carbon
FCF-3	Circle	1, 1.25,	Width: 1.5 - 23	10 ppi to 50 ppi	Straight	expandables.
	Rectangular	1.5, 1.75,	Diameter: 1 - 10		&	Other
		2			Taper	Custom shapes, sizes, and porosities can be accommodated.

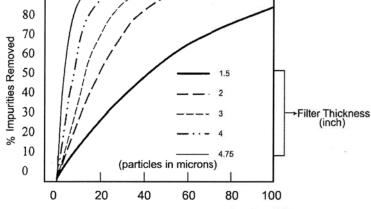
	Features	Benefits		
FCF-1	Reticulated screening structure	Refined and thorough filtering of molten metal stream.		
	Reduce reoxidation & sub-surface defects	High casting yield.		
	High thermal shock resistance	Effective at high temperature up to 3000 °F.		
	Superior Strength	Durable in use life.		
	Various shapes & sizes	Specific applications can be met.		
FCF-2	Fine reticulated screening structure	Deep filtration effect.		
	Retain dross & slag	Increase metal fluidity.		
	Low thermal mass	Maintain maximum pouring temperature.		
	Thermal shock resistant	Perfect for grey & ductile iron castings.		
	High wear resistant	Durable in use life.		
	Various shapes & sizes	Suit varied filtration process & equipment.		
FCF-3	Fine reticulated screening structure	Deep bed filtration throughout the thickness of filter.		
	Retain dross & slag	Increase metal fluidity.		
	Low thermal mass	Maintain maximum pouring temperature.		
	Various shapes & sizes	Meet different filtration requirements.		
	Available with edge sealing materials	Easy and secure installation.		

Diagrammatic Description of How **TaoFil** Filters Eliminate Impurities at Variations of Porosity and Thickness

100

90





Impurities removed with 2" thick TaoFil filters at various porosities

Impurities removed with 30 PPI TaoFil filters at various thicknesses

Data are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes. The Information, recommendations, and opinions set forth are offered solely for consideration, inquiry, and verification, and are not, in part or total, to be construed as constituting a warranty or representation for which we assume legal responsibility. Nothing contained herein is to be interpreted as authorization to practice patented invention without a license.