

BINDERS
SLEEVES
COATINGS
FILTER



EXPERIENCE.
EXPERTISE.
PERFECTION.



ABOUT SQ

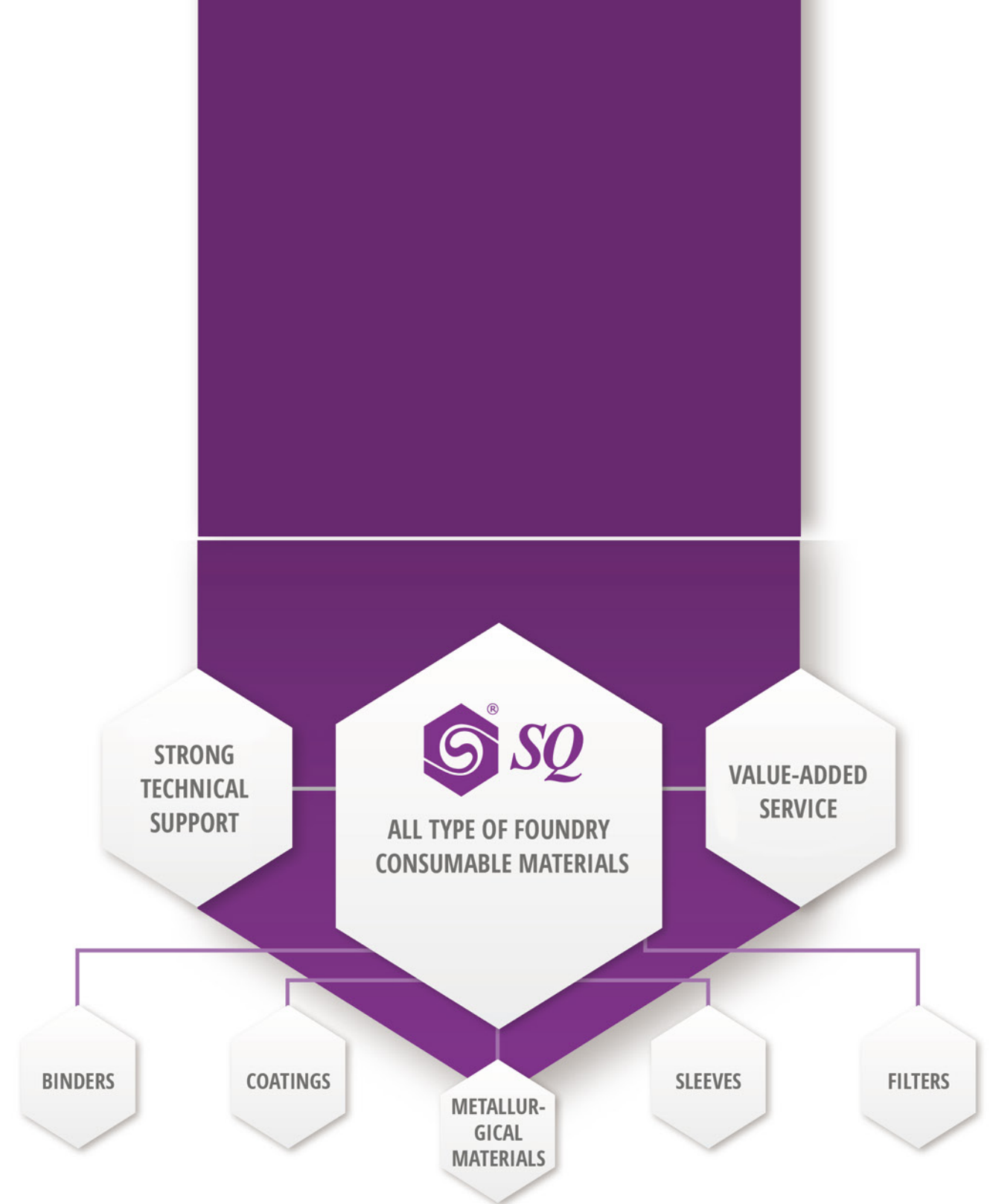
- Leading national agricultural enterprise in China
- Leading technology innovation enterprise
- Green manufacturing plant
- Gold medal enterprise in corporate social responsibility



FIVE INDUSTRIES



RESINS&NEW MATERIALS / BIOMASS INDUSTRIES / HEALTH INDUSTRY / NEW ENERGY INDUSTRY / BIO-PHARMACEUTICAL INDUSTRIES



FILTER

FCF-1Z ZIRCONIA FOAM CERAMIC FILTERS

FCF-1Z Zirconia Foam Ceramic Filters

UTILIZATION

Stainless steel, carbon steel and large iron castings metal liquid filtration.

FEATURES

- Reduce the secondary inclusions and pores by adjusting the liquid metal flow rate;
- Reduce the casting inclusion, reduces the casting scrap and welding rate;
- Improves casting surface quality and mechanical properties.

STORAGE AND SHELF LIFE

Keep in cool and dry place, away from moisture, avoid stacking and compression.

Shelf life: 1000 days.



TYPE	Operating temperature≤ (°C)	Application Scope
FCF-1Z	1700	sand casting
FCF-1ZR	1750	investment casting



FCF-1S Black Foam Ceramic Filters For Steel Casting

UTILIZATION

Carbon steel, low alloy steel, high manganese steel, big iron castings metal liquid.

FEATURES

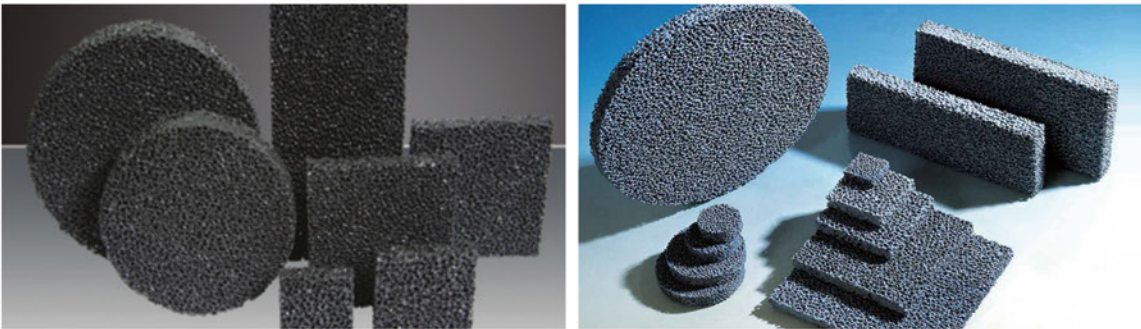
- High temperature impact performance, suitable for large casting molten metal filtration;
- low coefficient of thermal storage, small metal liquid chilling effect.

STORAGE AND SHELF LIFE

Keep in cool and dry place, away from moisture, avoid stacking and compression.

Shelf life: 1000 days.

TYPE	Operating temperature≤ (°C)	Application Scope
FCF-1S-10	1650	big iron castings, carbon steel, low alloy steel
FCF-1S-20	1700	carbon steel, low alloy steel
FCF-1S-Mn	1650	high manganese steel



FCF-2 Foam Ceramic Filters

UTILIZATION

Ductile iron, grey iron and nonferrous castings metal liquid.

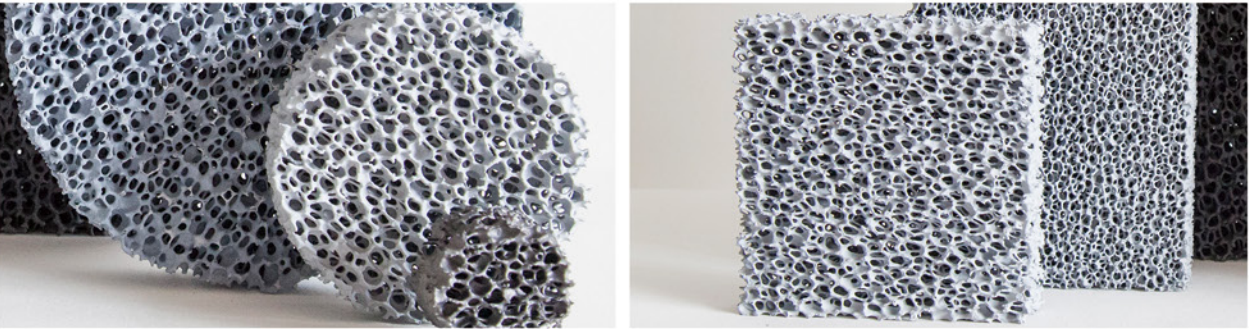
FEATURES

- Good filtration, reduce the rejection rate;
- Strong rectified adsorption, reduction the secondary inclusions;
- Improve the casting processing properties and mechanical properties.

STORAGE AND SHELF LIFE

Keep in cool and dry place, away from moisture, avoid stacking and compression.
Shelf life: 1000 days .

TYPE	Operating temperature≤ (°C)	Application Scope
FCF-2	1500	grey iron, ductile iron, nonferrous castings
FCF-2D	1460	Iron castings



FCF-3 Foam Ceramic Filters FOR ALUMINUM CASTINGS

UTILIZATION

Aluminum castings.

FEATURES

- Effectively remove the inclusions in aluminum stream, reduce scrap rate;
- Improve the surface quality, improve product performance;
- Improve the microstructure.

STORAGE AND SHELF LIFE

Keep in cool and dry place, away from moisture, avoid stacking and compression.
Shelf life: 1000 days.

TYPE	Operating temperature≤ (°C)	Application Scope
FCF-3	1200	ALUMINUM CASTINGS
FCF-3B	1300	BIG ALUMINUM CASTINGS

FCF-4 FOAM CERAMIC CAST-HOUSE For ALUMINUM CASTINGS

UTILIZATION

The filtration of ALUMINUM METAL STREAM.

FEATURES

- Effectively removes the bulk inclusions in the ALUMINUM METAL STREAM, and absorbs micron-sized particles and small inclusions;
- Improve the surface quality, improve product performance, and improve the microstructure.

STORAGE AND SHELF LIFE

Keep in cool and dry place, away from moisture, avoid stacking and compression.
Shelf life: 1000 days .

Density	Porosity	Compression strength Mpa	PPI
0.36-0.45g/cm³	80-90%	> 1.0Mpa	10-90



FCF-5 Foam Ceramic Filters

UTILIZATION

ALUMINUM CASTINGS.

FEATURES

- Good filtration;
- Low thermal storage coefficient, light weight, eliminating the risk of the solidification in the filtration process of liquid aluminum;
- Low density. The filters float in liquid aluminum surface during remelting, easy to remove with the scum.

STORAGE AND SHELF LIFE

Keep in cool and dry place, away from moisture, avoid stacking and compression.
Shelf life: 1000 days.

Density	Porosity	Compression strength Mpa
0.20-0.35g/cm³	80-90%	> 1.0Mpa



FCF-M Foam Ceramic Filters For Magnesium Alloy

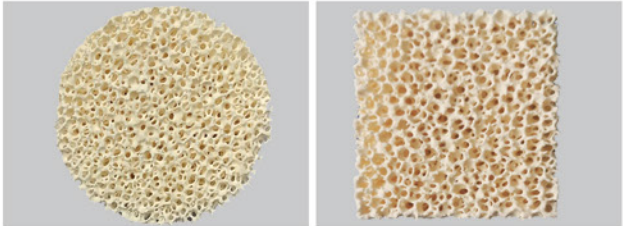
UTILIZATION

Magnesium alloy.

FEATURES

- Good performance at the high temperature;
- Chemically stable at high temperatures, do not react with alloy elements;
- Effectively reduce inclusion defects, improve casting quality and yield.

TYPE	Operating temperature≤ (°C)	Application scope
FCF-M	1150	Magnesium alloy



JC100 Integrated Filter Section

UTILIZATION

This product is suitable for the filtration and purification of large and medium size engineering machinery, valves, rail transit and other steel castings.

FEATURES

- The high temperature strength is high. There would be no secondary pollution to the molten steel during the pouring process;
- The shell material is formed by a new inorganic binder material, no gas evolution, and the gas content of the molten steel does not increase;
- Good filtration result, low filtration cost;
- Easy to operate and high production efficiency.

TYPE	Reference flow rate	inlet (outlet) size	Application scope
Y125/22-Z-10	18kg/s	φ 50	Stainless steel / carbon steel
Y125/22-S-10	9.8kg/s	φ 50	Carbon steel
F150/22-Z-10	33kg/s	φ 60	Stainless steel / carbon steel
F150/22-S-10	18kg/s	φ 60	Carbon steel



CHF Pressed Ceramic Filters

UTILIZATION

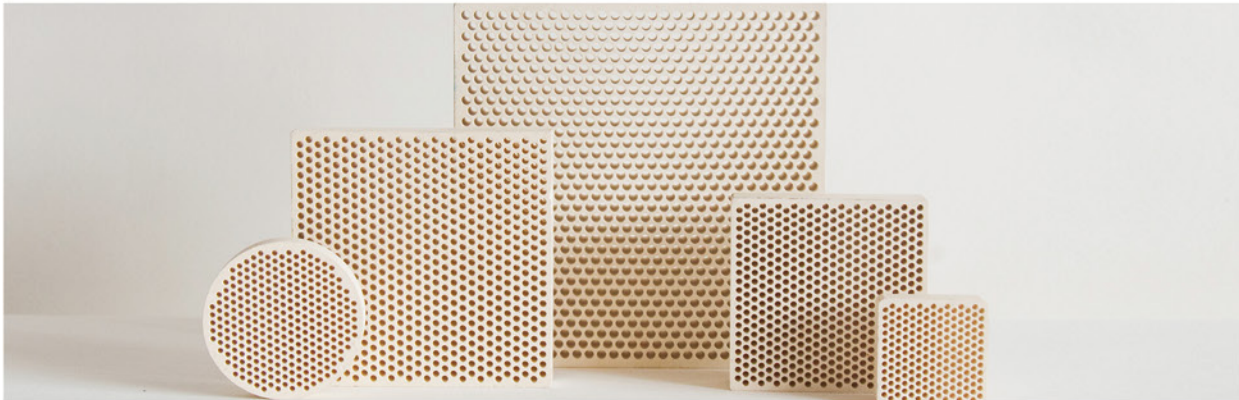
Iron castings and non-ferrous castings.

FEATURES

- Produced by high-pressure process, with high-strength;
- Effectively remove the particulate inclusions, adsorb the fine inclusions and bubbles in the liquid metal, stable pass rate;
- High dimensional accuracy, ensure the accuracy of the filter with the mold, especially suitable for the automated production lines.

STORAGE AND SHELF LIFE

Keep in cool and dry place, away from moisture, avoid stacking and compression.
Shelf life: 1000 days .



TYPE	Operating temperature	Application Scope
CHF-2	1500	Iron, copper, aluminum castings



Filter Cloth

UTILIZATION

Small and middle castings.

FEATURES

- Reduce inclusion defects, low the waste rate.

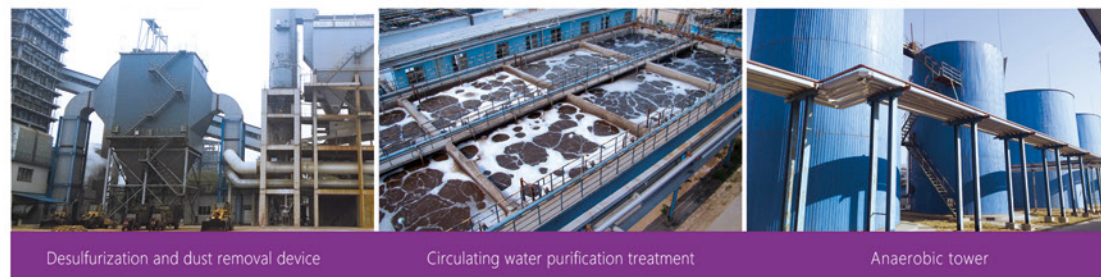


TYPE	Operating Temp ≤ (°C)	Mesh size	Application Scope
BXF-1	1450	1.5*1.5/2.0*2.0/2.5*2.5	Cast iron
BXF-2	850	1.5*1.5	Cast non-ferrous
BXF-3	1560	2.0*2.0/2.5*2.5	Small-medium cast steel

SAFETY HEALTH ENVIRONMENT



- Approved by ISO18001 Occupation Health Safety Management System.
- Approved by ISO14001 environmental management system; each year, we will invest tens of millions RMB for effluent, exhaust treatment.
- Approved by "National AAAA-Class Enterprise with Good Practice on Standardization".
- Biomass technology research & development and industrialization, build low carbon cycle economy.





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