



SLEEVES
FILTERS
COATINGS
BINDERS

EXPERIENCE.
EXPERTISE.
PERFECTION.



ABOUT SQ

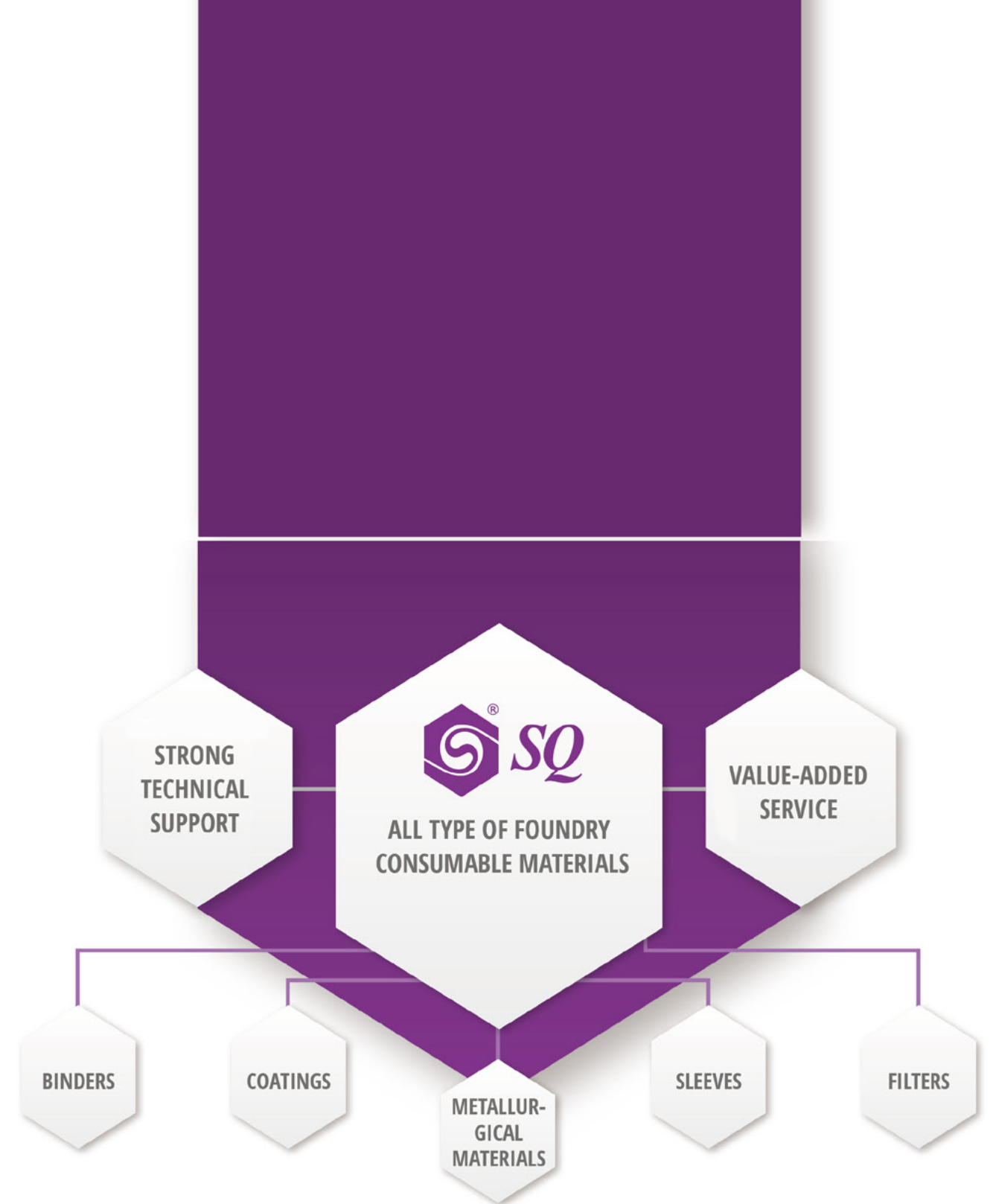
- Leading national agricultural enterprise in China
- Leading technology innovation enterprise
- Green manufacturing plant
- Gold medal enterprise in corporate social responsibility



FIVE INDUSTRIES



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



BINDERS

COLD BOX RESIN

COLD BOX RESIN

Cold box process is a high-performance, highly productive core manufacturing method. The specific feature of the cold box process is its high reactivity, which makes short production cycles possible for core production.

FEATURES

- Low emissions;
- High strength;
- Low-odor;
- Nonhazardous solvents;
- Long sand bench life;
- High dimensional consistency of the core;
- Excellent stripping performance.



Cold Box Resin Series For Sand Core Assembling Process

- High strength, easy for handling with robot;
- Excellent stripping performance with less frequency usage of release agent, up to 20% higher efficiency of the core making;
- Excellent collapsibility performance;
- Excellent sand flowability.

Which can be applied to ferrous alloy castings.

Super Low Additional Level Of Cold Box Resin Series

- Super high strength;
- Up to 20% binder usage reduction;
- Lower viscosity with better sand flowability;
- Eco-friendly, up to 20% lower aromatic content;
- Lower VOC.

Which can be applied to ferrous and non-ferrous casting, especially for the cores with complicated structure with thin wall.

Aromatic Free Cold Box Resin Series

- Free of aromatic content;
- Lower VOC emissions;
- No deformation after coating application;
- Lower smell, lower odor;
- Good stripping performance.

Which can be applied to ferrous and non-ferrous alloy castings.

BINDERS

- The biggest furan resin manufacturer in the world with 200,000MT annually plant
- The biggest furfuryl alcohol manufacturer in the world
- Continuously development on lower VOC emissions, lower odor resin series
- Lower monomeric furfuryl alcohol content resin without any sacrifice on strength
- Lignin modified resin series with much lower odor and VOC emission

No bake
binder
series

Furan
resins

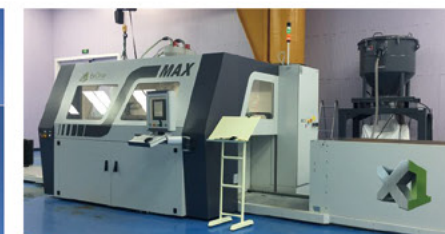
Phenolic
urethane
resins

FRNL Series Lower Furfuryl Alcohol Furan Resin Series

- Reduced VOC emission;
- Without any sacrifice on strength and overall performance;
- 80% less furfuryl emissions;
- High reactivity.

3D Series Furan Resin For 3D Printing Process

- Free formaldehyde is less than 0.1%;
- Lower viscosity;
- Higher reactivity with higher productivity;
- Higher strength;
- Lower gas evolution;
- Excellent castings surfaces;
- Eco-friendly.

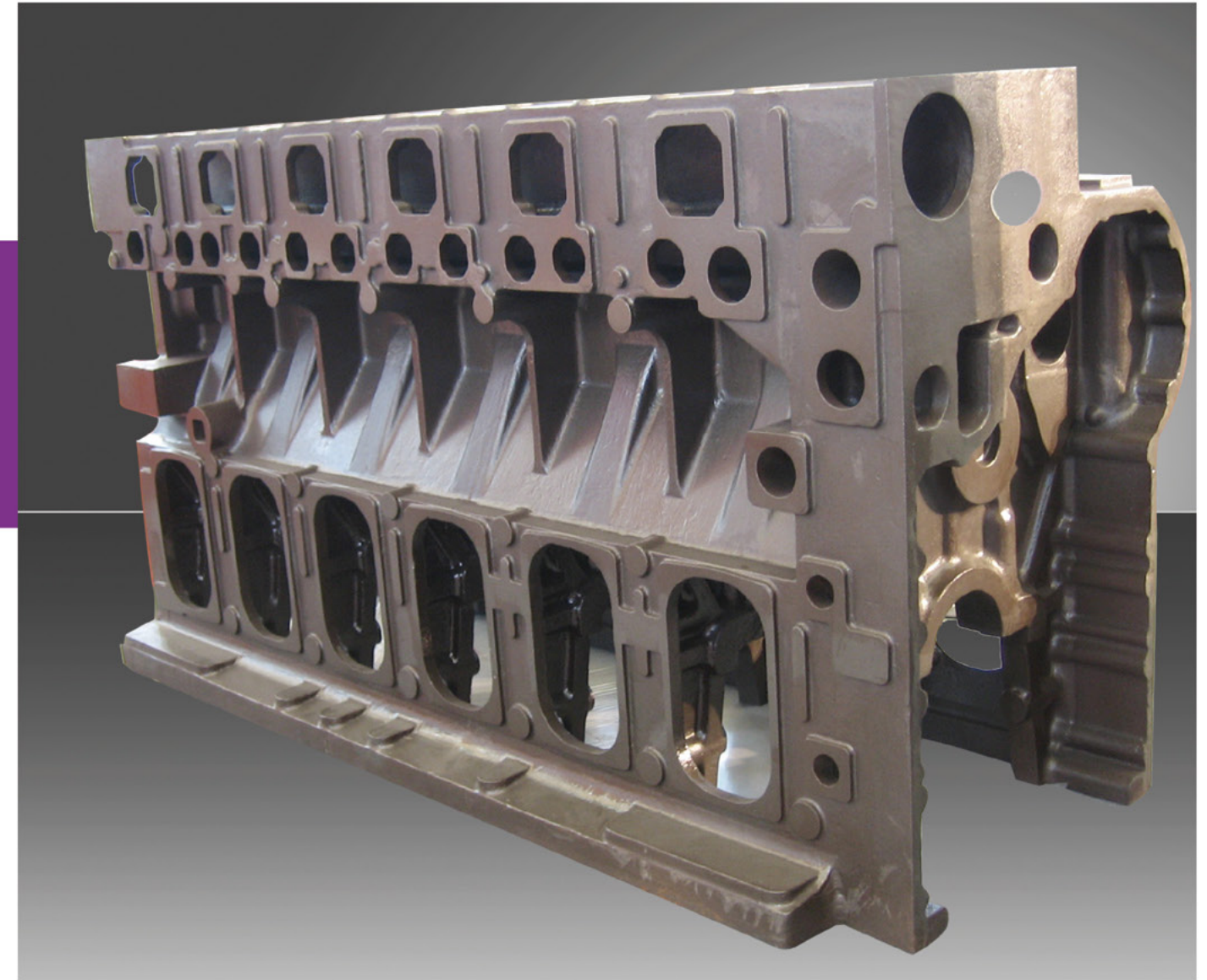


BINDERS

PHENOLIC URETHANE NO-BAKE RESIN

Phenolic Urethane No-bake Resin

- Low emission;
- Low nitrogen content;
- Excellent surface finishing;
- Excellent control on curing time;
- Excellent bench life / stripping time ratio;
- Excellent core & mold strengths;
- Excellent dimension consistency of the mold/cores.



Aromatic Free Phenolic Urethane No Bake Resin Series

- Free aromatic content, up to 30% VOC emission reduction;
- Free formaldehyde is less than 0.1%;
- Excellent deformability to eliminate the cracks defect of the castings;
- Lower viscosity;
- Lower pinholes defect possibility.

Which can be applied to ferrous alloy castings.



Ester Cured Alkaline Phenolic Resin

UTILIZATION

As one type of no bake sand process, ester cured alkaline phenolic resin owns high productivity, easily molding, good casting quality, energy saving and eco-friendly. It is one of the preferred processes for steel castings.

FEATURES

- Less gas evolution and eco-friendly;
- Free N, P, S elements, less casting defects such as pinholes etc, higher surface quality;
- Fast curing, the ratio between the bench life to stripping time is 40-50%;
- Wider tolerance quest for the acid demand value and water content of the sand, and alkaline sand can be used;
- Widely used for steel, iron and non-ferrous castings.



CO₂ Cured Alkaline Phenolic Resin

UTILIZATION

CO₂ cured alkaline phenolic resin process offers the longer bench life, convenient operation, and effectively compensates for the poor collapsibility of the water glass sand process.

FEATURES

- Simple process, high productive. The pattern can be produced by using various materials;
- Free N, S, P elements, less casting defects, higher surface quality;
- CO₂ gas is low toxic and eco-friendly;
- Eliminate hot cracking, improve the casting surface roughness.



A+B Computer Controlled Hardener Regulator

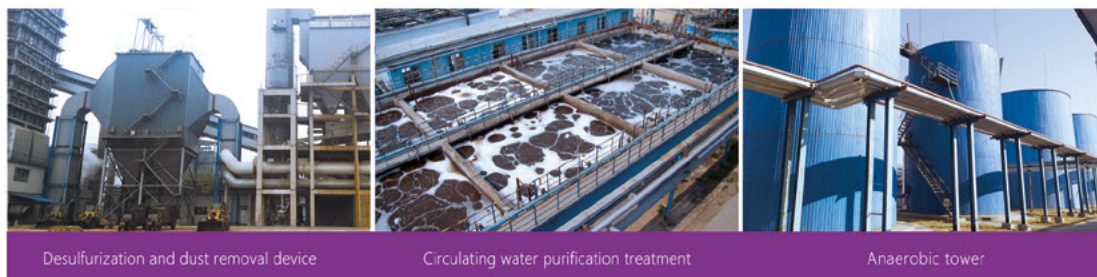
FEATURES

- Maintain consistent stripping times;
- Hardener addition is controlled by the computer inside the regulator;
- Only two hardeners are needed;
- Reduce hardener addition;
- Process optimization.

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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