SLEEVES
FILTERS
COATINGS
BINDERS

EXPERIENCE.
EXPERTISE.
PERFECTION.

® SQ
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

STRONG TECHNICAL SUPPORT

ALL TYPE OF FOUNDRY CONSUMABLE MATERIALS

VALUE-ADDED SERVICE

BINDERS

COATINGS

METALLURGICAL MATERIALS

SLEEVES

FILTERS
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

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.
**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.

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**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.

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**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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