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TECHNOLOGY IS THE
FIRST DRIVING FORCE TO LEAD
THE DEVELOPMENT OF THE COMPANY

BINDER SOLUTION

ABOUT COMPANY

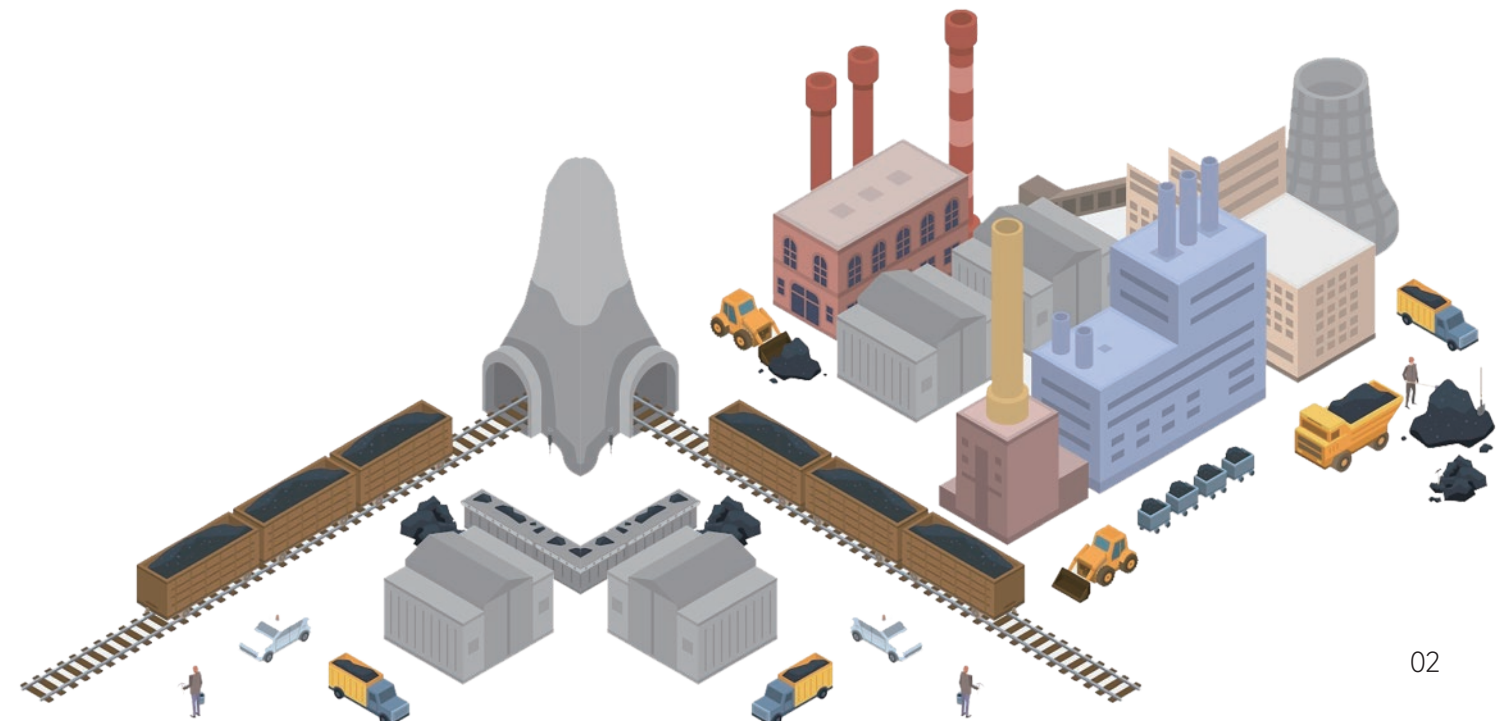
- Devoted To Manufacture Binder Products
- More Than 15 Years Of Technical Experience
- Professional Production Equipments And Processes
- Strong Technical Teams
- Scientific Management Systems

Technology is the first driving force to lead the development of the company

Jianjie Group is a leading binder manufacturer and supplier located in Chengdu, China, which is a technological enterprise integrating R&D, production, sales and related service. Devoted to manufacture binder products for more than 15 years, we have professional production equipments and processes, a strong technical team and a scientific management system.

We provide various mineral powder molding and bulk solid waste treatment technologies, e.g., the design, renovation and upgrading of production lines of iron ore pellets project, cold briquetting, and steel plant solid waste treatment project. We are serving all kinds of binders for the mineral industry and iron and steel enterprises in the world.

In order to serve our customers better, we provide technical consulting, sample testing, after-sales services, and EPC (Engineering Procurement Construction) service or staged EPC service. We would like to solve all the problems of the customers, including technological process, equipment selection and procurement, installation and commissioning, binder supply and production operation. Our goal is that as long as customers have raw materials, we have solutions for them to produce qualified products.





WHAT WE DO ?

TO SOCIETY

Our goal is to transform solid waste into wealth, and let traditional industries remove the social labels of environmental pollution and waste of resources. Jianjie strives to implement sustainable development to reduce solid waste. We feel deeply that we have a responsibility to protect the planet and its people, ensuring a cleaner, safer future for future generations.

TO CUSTOMER

We enable customers to achieve efficient and sustainable production at a lower cost. Due to the characteristics of their production, many enterprises are facing problems such as high production costs, low resource utilization, and serious environmental pollution. We can customize the products customers at the lowest cost, improve resource utilization efficiency, protect the environment, and help traditional industries build a resource-saving and environment-friendly sustainable development model.

**SAFE, EFFICIENT AND SUSTAINABLE PRODUCTS
HAVE ALWAYS BEEN OUR RELENTLESS PURSUIT.**

Our products include α-starch, binder for briquettes of dedusting ash, binder resisting CaO for briquettes of dedusting ash, binder for briquettes of RHF dezincification dedusting ash, binder for briquettes of ore powder, binder for pulverised coke, binder for coal briquette, binder for briquettes of pulverised nonmetallic ore, etc.

Our technology not only enables the recycling of mineral resources such as iron, carbon and phosphorus, but also expands to new areas of application, enhancing the breadth and depth of application of solid waste resources, reducing waste and saving costs.

**PRODUCT
INTRODUCTION**

01

**BINDER FOR BRIQUETTING
SOLID WASTE
RECYCLED IN STEEL PLANT**

 **BINDERS FOR BRIQUETTES OF PULVERIZED STEEL SLAG,
CONCENTRATED IRON ORE AND SCRAP IRON**

RANGE OF APPLICATION

Used for mill scale, pulverized steel slag, concentrated iron ore and scrap iron and other slag waste.

**PRODUCT
INTRODUCTION**

Jianjie® binder for briquettes of scrap iron is a mixture of environment-friendly polymer materials. It's hydrophilic, complexating and cold-setting, hence it is used in briquetting; mill scale, pulverized steel slag, concentrated iron ore and scrap iron and other slag waste. Shavings briquettes with Jianjie® binders are broadly applied in steel furnaces and well-received by numerous users.



BINDER FOR BRIQUETTING SOLID WASTE RECYCLED IN STEEL PLANT

01



Binder Resisting CaO for Briquettes of Dedusting Ash

RANGE OF APPLICATION

Used specially for steel plant waste containing CaO, like dedusting ash, sludge, slag and return fines of sinter.

PRODUCT INTRODUCTION

Jianjie® binder resisting CaO for briquettes of dedusting ash is a mixture of multiple environment-friendly polymer materials. It features high binding strength, high forming rate, high strength, quick curing, disintegration resistance, pulverization resistance, cost reduction, energy efficiency and environment-friendliness. It is specially used for steel plant waste containing CaO, e.g., dedusting ash, sludge, slag and return fines of sinter. The process is simple and the production cost is low.



Binder for Briquettes of RHF Dezincification Dedusting Ash

RANGE OF APPLICATION

Steel plant RHF dezincification dedusting ash.

PRODUCT INTRODUCTION

Jianjie® binder for briquettes of RHF dezincification dedusting ash is a mixture of multiple environment-friendly polymer materials. Less binder for more product. It features low dosage, low ash content, high binding strength, high forming rate, high strength, no disintegration and no pulverization at high temperature. Resulting briquettes feature high temperature resistance, high reduction performance, high zinc reduction and high metallization.



Binder for Briquettes of Mill Scale

RANGE OF APPLICATION

Mill scale, dedusting ash, sludge, iron ore etc.

PRODUCT INTRODUCTION

Jianjie® binder for briquettes of mill scale is a mixture of multiple environment-friendly polymer materials. It features high binding strength, high forming rate, high strength, quick curing, no pulverization, cost reduction, energy efficiency and environment-friendliness. It is used to cold-press briquettes of concentrated ores of many metals and nonmetals, such as iron ore and its concentrate, mill scale, manganese, phosphorus, copper, nickel, chromium and silicon/carbon. Briquettes are widely used in furnace burden for the blast furnace, direct reduction furnace, cupola and gasifier. The binder for briquettes of scrap iron and mill scale are well received by numerous clients.



Binder for Air-dried Briquettes of Mill Scale

RANGE OF APPLICATION

Pellet of mill scale in steel plant.

PRODUCT INTRODUCTION

Jianjie® binder for air-dried briquettes of mill scale is a mixture of multiple environment-friendly polymer materials. It features quick curing, high binding strength, high forming rate, high strength, energy efficiency, environment-friendliness, no toxicity and no hazard. It is specially used to cold-pressed industrial briquette or civilian-use coal briquettes as well as various metal or nonmetal briquettes.

BINDER FOR PELLETIZING CONCENTRATED IRON ORE

02



Binder of Modified Bentonite for Pellet

RANGE OF APPLICATION

The binder can be applied into pellets of various concentrated iron ores.

PRODUCT INTRODUCTION

Binder of modified bentonite for pellet is a composite material synthesized by adding some organic polymers to bentonite as the basic raw material. It improves the bonding effect and water absorption performance of bentonite, increases the bonding strength and compressive strength of pellets with less dosage, and expands the range of application.



Organic binder for Pelletizing Concentrated Iron Ore

RANGE OF APPLICATION

Used in pellets of various concentrated iron ores.

PRODUCT INTRODUCTION

Jianjie® organic binder for pelletizing concentrated iron ore is a composite material synthesized by adding some organic polymer materials, and has the properties of hydrophilicity, complexation and high bonding. It can effectively replace the bentonite binder containing silica and alumina, and is widely used in iron ore pelletizing.



Bentonite Extender

RANGE OF APPLICATION

The extender can be applied in metallurgical pellet-use bentonite and foundry bentonite.

PRODUCT INTRODUCTION

The bentonite extender is processed from multiple water-soluble polymer compounds. With properties such as hydrophilicity, complexation and binding effect, the extender improves binding performance and high-temperature stability of bentonite. This extender is suitable for metallurgical pellet-use bentonite as well as foundry bentonite.





BINDER FOR BRIQUETTES OF ORE POWDER



03



BINDER FOR BRIQUETTES OF PULVERIZED NONMETALLIC ORE

Binder for Briquettes of Phosphorus Ore Powder



PRODUCT INTRODUCTION

Jianjie® binder for briquettes of phosphorus ore powder is a mixture of multiple environment-friendly polymer materials. It's hydrophilic, complexing and cold-setting. Less binder for more products. It does not lower ore grade. It is specially used to briquetting phosphorus ore powder resistant to high temperature- and can meet the requirements of electric arc furnace.

RANGE OF APPLICATION

Phosphorus ore powder.

BINDER FOR BRIQUETTES OF PULVERIZED METALLIC ORE

Binder for Briquettes of Pulverized Metallic Ore



PRODUCT INTRODUCTION

Jianjie® binder for briquettes of pulverized metallic ore is a mixture of multiple environment-friendly polymer materials. It features high binding strength, high forming rate, high strength, quick curing, no pulverization, cost reduction, energy efficiency and environment-friendliness. It is used to cold-press briquettes of ore powders of many metals and nonmetals, such as iron, iron concentrate, mill scale, manganese, copper, nickel, chromium and silicon/carbon. Briquettes are widely used as the furnace burden for the blast furnace, direct reduction furnace, cupola and gasifier. It is well received by numerous clients.

RANGE OF APPLICATION

Bementite, nickel, chromium and magnesium ore powders.

BINDER FOR COAL BRIQUETTE

04



Anthracite Binder

RANGE OF APPLICATION

Used to make briquettes from industrial or civilian-use pulverized coal, BBQ charcoal and home heating charcoal.

PRODUCT INTRODUCTION

Made from high polymer materials, Jianjie® anthracite binder is specifically applied to making briquettes from industrial or civilian-use pulverized coal, BBQ charcoal, home heating charcoal, and other coal/charcoal products, by virtue of high binding strength, high forming rate, high cold/hot strength, high energy efficiency and environment-friendliness and no fume or odor.



Binder for Air-dried Briquette of Anthracite

RANGE OF APPLICATION

Briquettes of mill scale in steel plant and industrial or civilian-use coal briquette.

PRODUCT INTRODUCTION

Jianjie® binder for air-dried briquette of anthracite is a mixture of multiple environment-friendly polymer materials. It features quick curing, high binding strength, high forming rate, high strength, energy efficiency, environment-friendliness and no toxicity. It is specifically used to cold-press industrial or civilian-use coal briquette, various metal or nonmetal briquettes.



Binder for Moulded Semi-coke

RANGE OF APPLICATION

Used to moulded semi-coke for industries, BBQ charcoal making, metallurgy and calcium carbide making.

PRODUCT INTRODUCTION

Jianjie® binder for moulded semi-coke is made from multiple environment-friendly polymer materials. It features high binding strength, high forming rate, and high cold/hot strength. It is specifically used to mould semi-coke for industrial coke purposes. It also improves energy efficiency for BBQ charcoal making, metallurgy and calcium carbide making while abating environmental pollution.



BINDER FOR PULVERIZED COKE

05



RANGE OF APPLICATION

Production and crushing of coke generates a great amount of coke dust, also called pulverized coke. Making pulverized coke into briquettes as a coke substitute can not only reduce steel making cost, but also effectively solve supply tension of lump coke.

Used in blast furnace for iron making, alloy, calcium carbide, rock wool factory, foundry, lime kiln and other industries to partially replace lump coke.

Jianjie® binder for cold-press briquette of pulverized coke is developed by our company with repeated R&D practice, which features relatively high binding strength, high reactivity and high adsorption rate. It can resist high temperature. It can be used in blast furnace for iron making, alloy, calcium carbide, rock wool factory, foundry, lime kiln and other industries to partially replace lump coke.



06

BINDER FOR BRIQUETTES AS METALLURGIC FURNACE BURDEN ▶

RANGE OF APPLICATION

Extensively used in briquetting natural/synthetic graphite, petroleum coke, calcined anthracite and furnace coke.

PRODUCT INTRODUCTION

Jianjie® binder for recarburizer is a mixture of multiple environment-friendly polymer materials. Less binder for more products, low ash content, high binding strength, high forming rate, high strength and corrosion resistance.

It is extensively used in briquetting natural/synthetic graphite, petroleum coke, calcined anthracite and furnace coke.



07

ALPHA STARCH ▶

RANGE OF APPLICATION

Metallurgy, coal briquette, construction, foundry, animal feed, oil drilling and fertilizer.

PRODUCT INTRODUCTION

Jianjie® alpha starch is a modified version of maize starch. It excels in solution thickening, water solubility, suspendability, gelatin solution stability, film forming ability, water retention and binding effect. It quickly dissolves in cold water and dispenses with the complexity of heating-based gelatinization. It extensively used in metallurgy, coal briquette, construction material, metal casting, animal feed, oil production and fertilizer.





PROCESSES AND TECHNOLOGIES▶



With the unremitting efforts of the R&D team, our company has obtained a number of patented technologies and developed a series of binders for iron and steel smelting, coking, coal briquette, phosphorus production and other industries.

R E C Y C L I N G



Our binder is firstly mixed with powdered raw materials at room temperature, then added with water and stirred evenly, and finally made into briquettes in the briquetting equipment. With our company's technical solutions, the briquettes produced have a high forming rate and a low breakage rate, and the briquettes have sufficient strength to be recycled to the furnace for iron-making and steel-making. This technology gradually realizes the recycling of resources such as iron ore concentrate, dedusting ash, ore powder, and coke powder, which can avoid resource waste and save enterprise costs. It is in line with the sustainable development strategy of resources and the development requirements of clean and energy-saving production of enterprises.



OUR SERVICE



OUR GOAL

As long as customers have raw materials, we have solution for them to produce qualified products.

We can customize the solutions according to the needs of customers, provide supporting services such as production line design and equipment upgrade, adjust the parameters of the product according to their trial situation, and realize the performance and feasibility demanded by the customers. We have a professional team of experts with extensive theory and engineering practice experience specializing in binder engineering research and development, engineering design, manufacturing, technical support.

We provide technical consultation, scheme design, product manufacturing, equipment selection and procurement, installation and commissioning, binder supply and production operation, and after-sales service. We also provide "turnkey" solutions, either as EPC (Engineering Procurement Construction) service or staged EPC service.

SERVICE PROCESS

- | | | |
|--------------------------|--|-------------------------------|
| 01 Customer Inquiry | 02 Technical Team Analyses Feasibility | 03 Provide Solution and Quote |
| 04 Adjust Trial Solution | 05 Customer Confirmation | 06 Production and Delivery |
| | | 07 After-Sales Service |

ENGINEERING PROCUREMENT CONSTRUCTION (EPC) SERVICE PROCESS



PROJECT CASE

OVER **1000⁺** CUSTOMERS WORLDWIDE

