



Contact Details



Ashapura
Group of Industries



to protect environment

Disclaimer : Although the facts and suggestions in this publication are based on our own research and are believed reliable, we cannot assume any responsibility for performance or results obtained through the use of our products, herein described, nor do we accept any liability for loss or damages directly or indirectly caused by our products. The user is held to check the quality, safety and all other properties of our products prior to use. Nothing herein is to be taken as permission, inducement or recommendation to practice any patented invention without a license.

+91 81694 40891 | sales@ashapura.com

www.ashapura.com

PHOTO: GETTY IMAGES

ONE STOP
FOUNDRY
SOLUTIONS

INDEX

- **ASHAPURA INTRO**
- **PLANT INFRA & GLOBAL PRESENCE**
- **INNOVATION & INDUSTRIES WE CATER**
- **BENTONITE FOUNDRY**
- **BENTONITE IRON ORE PELLETIZING**
- **BENTONITE CONSTRUCTION AND CIVIL ENGINEERING**
- **BENTONITE SPECIALITY RANGE**
 - > **PAPER INDUSTRY**
 - > **DESICCANT**
 - > **CAT LITTER**
 - > **SOAPS AND DETERGENTS**
 - > **ANIMAL FEED**
 - > **ORGANOCLAY**
 - > **OIL AND DRILLING**
 - > **PHARMACEUTICAL**
- **ALPHACAST SUPER**
- **ALPHACAST SUPREME**
- **ALPHACOAT SUPER (S) & (W)**
- **ALPHACOAT SUPREME-AST**

INTRO

The Ashapura Group of Industries stands as a testament to excellence, innovation, and commitment in the realm of industrial growth. With a diverse portfolio spanning multiple sectors, the Group has consistently pushed the boundaries of success and sustainability. Known for its leadership in mining, manufacturing, and industrial services, Ashapura has earned a distinguished reputation for delivering high-quality products and solutions to clients across the globe.

At the core of the Ashapura Group lies a strong foundation of ethical business practices, technological advancement, and a customer-centric approach. From its early days in mining to its present-day achievements in Minerals, logistics, and other sectors, The Group has evolved into a multi-faceted organization that continues to drive growth while adhering to the principles of environmental sustainability and social responsibility.

With a vision for the future and a deep commitment to quality, Ashapura Group of Industries remains focused on building lasting partnerships, fostering innovation, and contributing to the global economy. Through its diverse business ventures, the Group is dedicated to creating value for its stakeholders and making a positive impact in the industries it serves.



MINERAL INFRA

Multiple location

Bentonite production facilities

in Kutch



Hamla Plant

Strategically located
State of the art Manufacturing facility



Baraya Plant

Located near Mundra Port
Largest Mineral processing complex



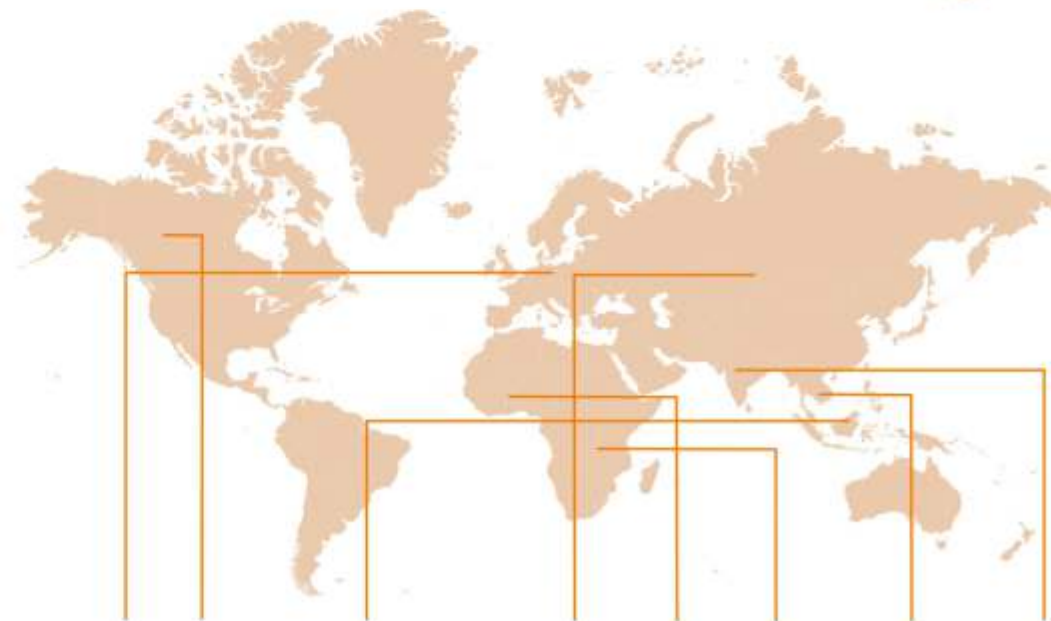
Punadi Plant

Expansion for growing needs



Ashapura
Group of Industries

GLOBAL PRESENCE



BELGIUM UAE INDONESIA CHINA GUINEA NIGERIA MALAYSIA INDIA

The centralized R&D centre at Ashapura i.e. the Innovation & Knowledge Centre, IKC is the bedrock of our Research & Development activities.

- ⑩ 9.5-acre R&D centre for mineral analysis and product development.
- ⑩ One of the most well-equipped fundamental mineral research facilities in south Asia.

Major Facilities

- ⑩ Complete characterization facility including mineralogy, chemical constituents & surface morphology.
- ⑩ Sophisticated instruments like XRD, ICPS, XRF, SEM, thermogravimetry, BET surface area analyser, particle size analyser etc.
- ⑩ Application based testing facility for bentonite, Kaolin & other functional minerals.

Application Based Miniature Facility

- **Foundry -**
 - ◊ Green sand molding, Casting, Coating, Zr sand molding.
- **Steel -**
 - ◊ Iron ore palletization.
 - ◊ Pan granulation.
 - ◊ Green Ball formation & strength evaluation.
- **Oil -**
 - ◊ Bleaching of vegetable oils & refining.
- **Paint -**
 - ◊ For making paint to study the effect of different mineral fillers.
 - ◊ Ore dressing & beneficiation for different Minerals.



Analytical Laboratory Division
Supports the quality control efforts



Product Development Division
Focus on the development of value-added products



Mineral Processing Division
Equipped with relevant instrumentation for undertaking mineral beneficiation and value-addition

INDUSTRIES WE CATER

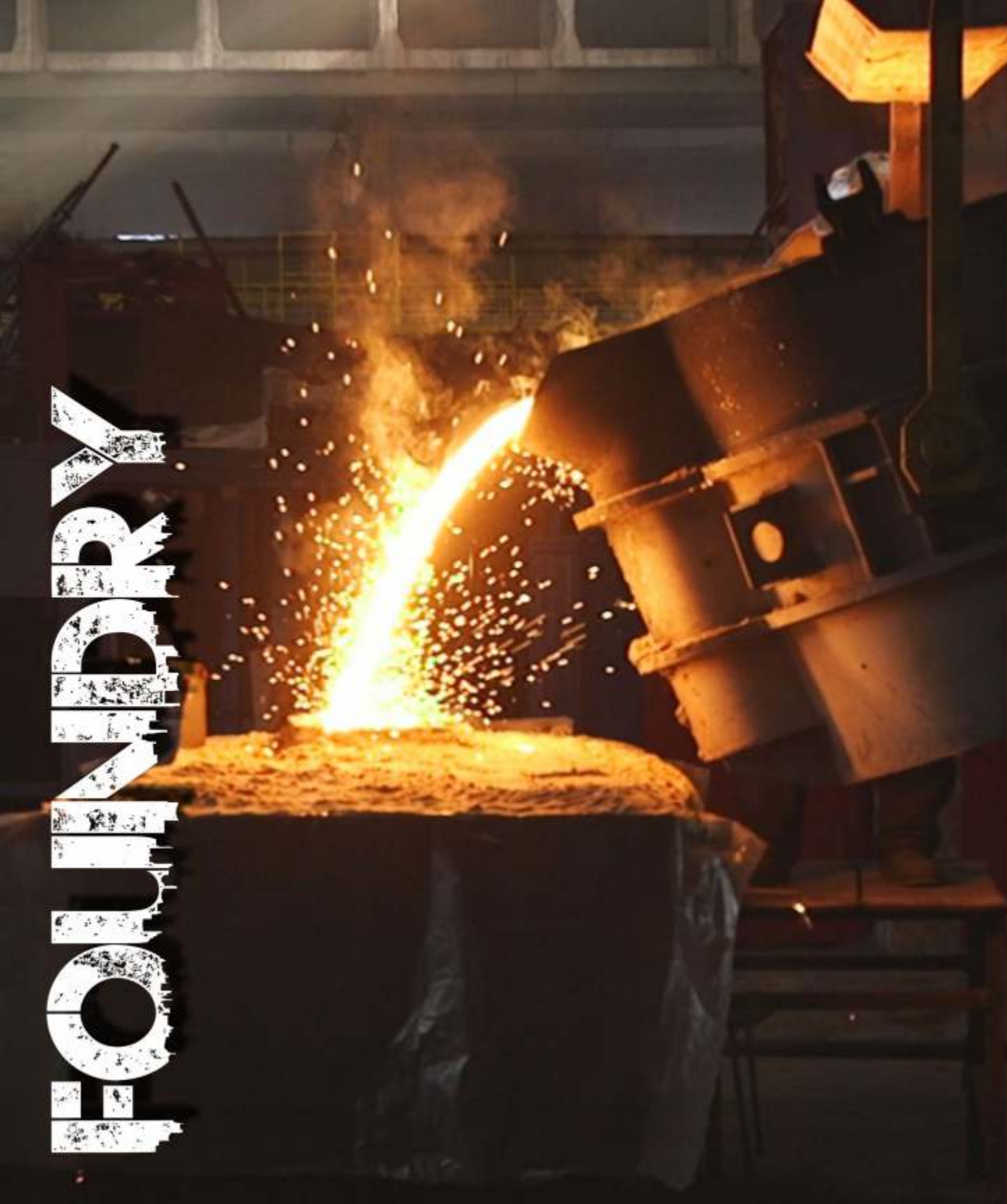
Major Applications

- ⑩ Foundry
- ⑩ Iron Ore Pelletization
- ⑩ Civil Engineering
- ⑩ Drilling
- ⑩ Pet litter

Advanced Applications

- ⑩ Paper
- ⑩ Geo Synthetic Clay Liners
- ⑩ Ceramics
- ⑩ Animal Feed
- ⑩ Fertilizers
- ⑩ Cat Litter
- ⑩ Cosmetics & Detergents
- ⑩ Effluent treatment
- ⑩ Water proofing
- ⑩ Pharma and Catalysts
- ⑩ Desiccant





PRODUCTS RANGE

Ultramax

- ⑩ All in one value for Foundry
- ⑩ High Mold Strength
- ⑩ Reduces bentonite addition
- ⑩ It gives high GCS with high WTS
- ⑩ Low moisture demand

Ultrabond

- ⑩ High swelling volume and methylene blue absorption value
- ⑩ It is widely accepted for its consistent performance
- ⑩ Works good with all types of molding setup

Versobond

- ⑩ Excellent product for high wet tensile strength
- ⑩ Well suited for high pressure lines
- ⑩ Reduction in Sand Related Defects

HiBent

- ⑩ Excellent Foundry Performance Bentonite
- ⑩ Increase in foundry molding system sand GCS with consistent stability
- ⑩ Reduction in Sand Related Defects

Thermobond

- ⑩ Bentonite with higher thermal stability
- ⑩ Less burnout and high Thermal sustainability
- ⑩ It gives good GCS, high WTS and DCS
- ⑩ Reduces bentonite addition, resulting into lesser moisture demand
- ⑩ Excellent casting weight control
- ⑩ Reduction in Sand defects
- ⑩ Excellent control over hard sand fusion



Universal Applications.

IRON ORE PELLETIZATION

PRODUCTS RANGE

Highbond (IOP)

- ⑩ Good absorptive property enables to enhance binding towards fine iron ore during pelletization or briquetting
- ⑩ Improves green and dry strength
- ⑩ Consistent quality parameters

MBI-100

- ⑩ With lower dosage, maintains GCS, DCS & Drop Number
- ⑩ Less slag formation due to less silica from Bentonite
- ⑩ Better air permeability leading to uniform porosity
- ⑩ Faster pellet growth rate

Universal Applications.



CONSTRUCTION AND CIVIL



SEGMENTS

Piling

- Stabilizes and prevents collapse of boreholes.
- High viscosity helps the piling process.
- Provides best lubricity
- Reduced consumption & suitable for all soil types.

Diaphragm Wall

- Used as support fluid to stabilize the excavation.
- Forms a filter cake on the slurry trench walls.
- Reduces the slurry wall's soil permeability.
- Provides high viscosity and density.

Horizontal Drilling

- Reduces fluid loss and prevents water seepage.
- Forms thin filter cake with low permeability.
- Withstands formation pressure.
- High viscosity and high yield

Typical Lining Applications

- Canals
- Highway and Civil
- Landfills
- Mining
- Ponds



Universal Applications.

SPECIALTY RANGE



SEGMENTS

Paper Industry

- ⑩ Selectively mined, High quality micronized clay.
- ⑩ Enhancement of microparticle retention and drainage.
- ⑩ High Colloidal & adsorptive properties

Desiccant

- ⑩ WHO, GMP, ISO, ASTM, DIN Certified & Approved Desiccants.
- ⑩ Eco-Friendly Desiccant with high adsorption capacity
- ⑩ Container Desiccants (250, 1 Kgs hanging Desiccants)
- ⑩ Small packaging desiccants suitable for a variety of applications
- ⑩ (1-2-5-10-20-50-100-250-500-1000 gms)

Cat Litter

- ⑩ Bentonite cat litter with excellent clumping properties
- ⑩ Producing a wide range of Round and sand shape Bentonite cat litter

Soaps & Detergents

- ⑩ Excellent absorption properties to facilitate dirt removal & oil absorption
- ⑩ Non abrasive material imparts fabric softening

Animal Feed

- ⑩ High binding and efficiency
- ⑩ Immunity Builder, Growth promoter & toxin remover
- ⑩ Anticaking agent, Improve pellet quality & flowability
- ⑩ Customized solutions available

Organoclay

- ⑩ Drilling fluids
- ⑩ Rheological additives for grease, paint, cosmetics & inks
- ⑩ Suspension / anti setting agents for solvent based system

Oil and Drilling

- ⑩ Product confirming to API specification
- ⑩ Available in different packing sizes

Pharmaceutical

- ⑩ GMP certified facility meeting global standards Like IP, BP, USP & JP compliant minerals
- ⑩ High absorption property makes an excellent carrier
- ⑩ Natural, Non- Toxic, & Non – Abrasive clays for pharma & Cosmetic applications
- ⑩ Bentonite, Attapulgite, Talc, Kaolin & Calcium Carbonate Minerals are available

Universal Applications.



ALPHACAST SUPER



ALPHACAST



Ashapura
Group of Industries

ALPHACAST SUPER

ALPHACAST SUPER (Grit) is an advanced media specifically designed to replace zircon sand in investment casting applications. With its superior thermal, physical, and chemical properties, ALPHACAST SUPER (Grit) enhances casting performance while optimizing operational efficiency and reducing associated costs.

Key Advantages & Benefits:

- **Non-Reactive with Molten Metal:**

ALPHACAST SUPER's unique composition ensures minimal interaction with hot metal, leading to fewer rejections and improved casting quality.

- **Enhanced Dimensional Accuracy:**

The precise control over mold formation improves the dimensional accuracy of castings, minimizing the need for costly post-casting adjustments.

- **Reduced Media Consumption:**

By maximizing the efficiency of the casting process, ALPHACAST SUPER significantly reduces media consumption, contributing to lower material costs.



ALPHACAST SUPER (Fine) is a high-performance casting media specifically engineered to replace zircon sand in investment casting applications. With its superior thermal, physical, and chemical properties, ALPHACAST SUPER (Fine) significantly enhances casting performance while optimizing operational efficiency and driving cost reductions.

Key Advantages & Benefits:

- **Non-Reactive with Molten Metal:**

The unique composition of ALPHACAST SUPER ensures minimal interaction with molten metal, resulting in reduced rejections and improved casting quality.

- **Reduced Media Consumption:**

ALPHACAST SUPER maximizes casting process efficiency, significantly lowering media consumption and contributing to reduced material costs.

- **Ease of Use:**

Designed for simplicity, ALPHACAST SUPER enhances ease of handling and application, streamlining the casting process for improved operational productivity.

- **Excellent Control over Slurry Viscosity:**

ALPHACAST SUPER offers precise control over slurry viscosity, ensuring optimal consistency and superior casting results.

ALPHACAST SUPREME



ALPHACAST SUPREME

ALPHACAST SUPREME is a high-performance ceramic casting media designed to replace chromite sand in mould casting foundries. Offering exceptional thermal, physical, properties, ALPHACAST SUPREME significantly enhances casting performance, improves overall process efficiency, and helps reduce operational costs.

Key Advantages & Benefits:

• Enhanced Permeability & Reduced Cooling Time:

ALPHACAST SUPREME's superior permeability facilitates improved airflow and gas evacuation during the casting process, leading to faster cooling times and better mold integrity.

• Improved Dimensional Accuracy:

With its precise formulation, ALPHACAST SUPREME contributes to higher dimensional accuracy in the final castings, reducing the need for post-casting machining and adjustments.

• Lower Media Consumption:

Lower Density compare to Chromite Sand ALPHACAST SUPREME reduces sand Consumption.

• Reduced Additives & Defects:

ALPHACAST SUPREME minimizes the need for additional additives and reduces the occurrence of casting defects, ensuring higher quality and consistency in the final product.



• Non-Reactive with Hot Metal:

The product's advanced composition ensures that it does not react with molten metal, reducing the risk of material rejections and enhancing overall casting yield.

• Repeatability & Reusability:

ALPHACAST SUPREME offers excellent reclamation properties, enabling multiple reuses of the material. This capability ensures consistent performance across production cycles, while also optimizing cost-effectiveness.

ALPHACOAT SUPER



Ashapura
Group of Industries

ALPHACOAT SUPER(S)

ALPHACOAT SUPER (S) is a ready-for-use, spirit-based zircon coating designed for use in a wide range of casting applications. With excellent suspension and covering properties, ALPHACOAT SUPER (S) is ideal for green sand, CO₂, and resin-bonded sand moulds/cores. It is suitable for casting almost all metals, including critical applications in heavy cast iron and steel foundries, as well as various grades of iron, copper, nickel-based alloys, and light alloys in green sand, sodium silicate, and resin-bonded moulds.

Key Advantages & Benefits:

• Superior Casting Finish:

ALPHACOAT SUPER (S) provides an excellent casting finish, ensuring castings free from burn-on and metal mould penetration. This significantly reduces fettling costs and enhances productivity by producing high-quality castings with minimal finishing work required.

• Safe and Non-Toxic:

The product uses low-toxicity carriers, ensuring safety for operators and reducing environmental concerns during handling and application.

• Low Gas Evolution:

ALPHACOAT SUPER (S) evolves minimal gas during casting, reducing the risk of defects caused by gas formation and improving the quality of the final product.

• Easy Remixing and Application:

Due to its excellent suspension characteristics, ALPHACOAT SUPER (S) can be easily remixed and applied, ensuring consistent performance and ease of use in various foundry environments.

Shelf Life & Storage:

ALPHACOAT SUPER (S) has a shelf life of 6 months. For optimal performance, it should be stored in a well-ventilated area, preferably shaded, and protected from direct exposure to sunlight and rain.



ALPHACOAT SUPER(W)

ALPHACOAT SUPER (W) is a premium, ready-for-use, water-based zircon coating specifically designed for metal casting applications. Ideal for use on most sand binder backgrounds, it is suitable for casting a wide range of metals, including critical applications in cast iron and steel. Unlike traditional dressings, ALPHACOAT SUPER (W) offers superior application characteristics and delivers an enhanced casting surface finish. The coating guarantees high performance with every application.

Key Advantages & Benefits:

• Ready for Use:

No mixing or dilution required—saving time, labour, and minimizing material waste. This ensures consistently optimal coating characteristics across all applications.

• Faster Drying:

Dries quickly, reducing oven drying costs and time. In many cases, it can even air dry overnight, making it highly efficient for both large and small-scale operations.

• Minimal Gas Emissions:

ALPHACOAT SUPER (W) evolves negligible gases during the pouring process, which helps to minimize defects such as casting blows. Coated cores remain stable during storage without rehydrating, reducing rejection rates.

• Superior Casting Finish:

The coating forms a crack-free refractory layer in a single application, effectively preventing sand fusion and ensuring a smooth, high-quality casting surface.

Shelf Life and Storage:

• Shelf Life: Higher Shelf Life

• Storage Instructions: Store in an airtight container to maintain product quality and effectiveness.

ALPHACOAT SUPREME-AST



ALPHACOAT



Ashapura
Group of Industries

ALPHACOAT SUPREME-AST

Alumino Silicate - Water base

ALPHACOAT SUPREME-AST is a high-performance Alumino-Silicate water-based refractory coating, specifically developed for dipping applications in the production of thin-sectioned automotive castings. This advanced coating provides a superior as-cast surface finish while effectively minimizing gas-related defects. Thanks to its balanced rheology and cutting-edge refractory technology, ALPHACOAT SUPREME-AST ensures consistent casting performance, resulting in enhanced overall quality.

Key Advantages & Benefits:

• Minimizes Gas-Related Defects:

Reduces the occurrence of gas-related issues, leading to fewer rejections and more reliable casting results.

• Low Energy Requirements for Drying:

Designed for efficient drying, this coating reduces energy consumption during the drying process, contributing to cost savings.

• Superior As-Cast Finish:

Achieves an excellent surface finish, reducing the need for additional shot-blasting cycles and, consequently, lowering overall processing costs.

• Increased Productivity:

By minimizing defects and enhancing the surface quality, ALPHACOAT SUPREME-AST helps to streamline production, increasing overall productivity and reducing cycle times.

Shelf Life and Storage:

- Shelf Life: 4 months
- Storage Instructions: Store in a cool, dry place to maintain the integrity and performance of the coating.

