



Vedanta Allied Minerals and Alloys

Manufacturers & Suppliers of Industrial Raw Materials and Oil



Steel Plant



Ferro Alloy



Foundry



Ceramics

Located in Bhilai, Chhatisgarh



VAMA Important Milestones



01



2015

We Started VAMA for
MNO, MNO2
Manufacturing,
Fabrication work

02



2020

Crossed Per month
300mt production

03



2024

Crossed 18Cr
Turnover

04



2026

New Product
Lustrous Carbon, Coal
dust, Refractory
Material



VAMA Lustrous Carbon Additive - *Engineered for Superior Green Sand Casting Performance*

Vedanta Allied Minerals and Alloys (**VAMA**) is a Bhilai, Chhattisgarh based industrial company engaged in the manufacturing and supply of metallurgical raw materials other Industrial products. **VAMA** is ISO certified company. VAMA is a trusted manufacturer and supplier of **high-grade Lustrous Carbon and premium Coal Dust, Alloys , High grade and high-quality Foundry Sleeves** delivering consistent quality to core industrial sectors across India. With strong expertise in raw material processing and quality control, VAMA ensures products that enhance efficiency, surface finish, and performance in demanding environments.

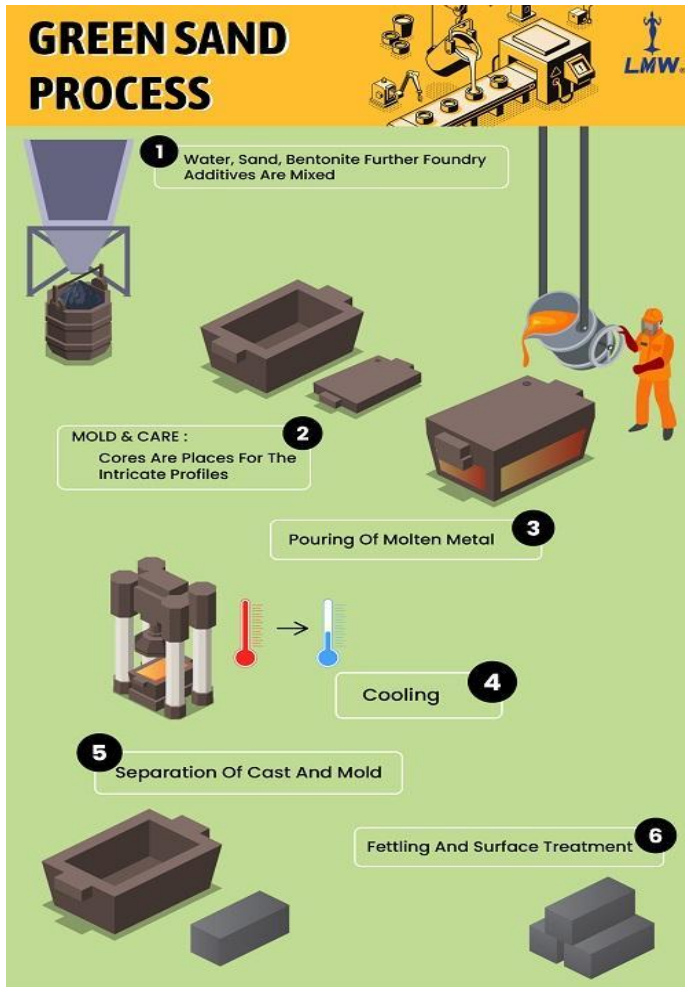
Our **Lustrous Carbon** is specially processed for foundry applications, improving casting surface finish, reducing defects, and enhancing mold performance. VAMA India's fastest growing manufacturer of **Lustrous Carbon Additives** (sold under the brand name **VAMA**) used primarily in iron foundry green sand molding. Lustrous Carbon additives vaporize when in contact with molten metal, creating a protective, gas-tight layer that prevents sand defects and yields a smooth casting surface.

Why Choose VAMA?

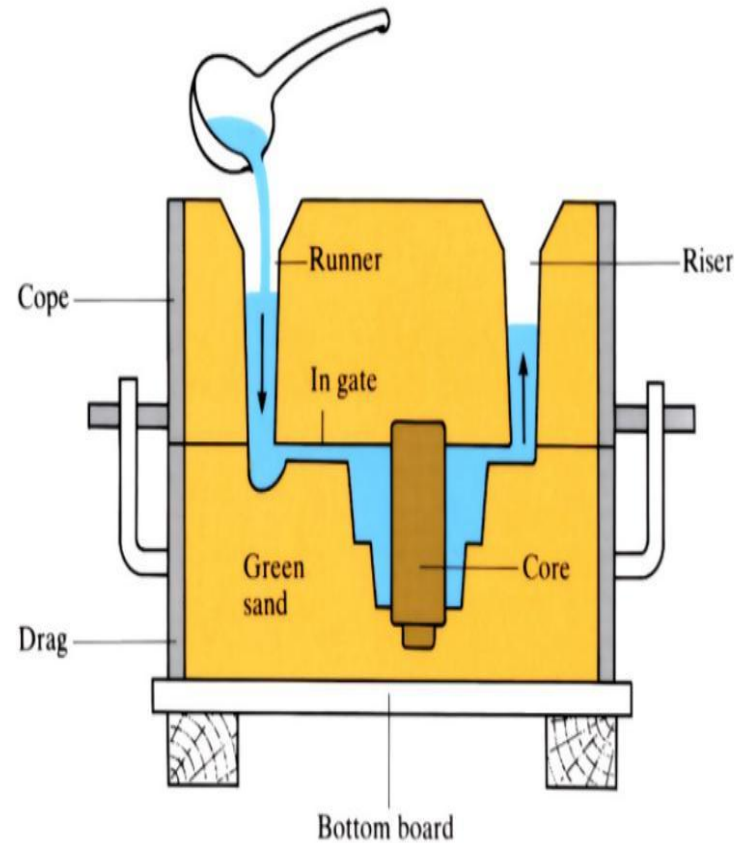
- ✓ Customized Lustrous Carbon solutions for every foundry
- ✓ Consistent product quality and performance
- ✓ Strong technical expertise in green sand technology
- ✓ Scientific laboratory testing and analysis
- ✓ Faster defect identification and root cause analysis
- ✓ Improved casting surface finish and reduced rejection rates
- ✓ Dedicated after-sales technical support
- ✓ Long-term partnership focused on customer success

VAMA - More Than a Supplier, Your Technical Partner in Green Sand Foundry Solutions

At VAMA, we don't just supply **Lustrous Carbon Additives**—we provide complete technical solutions that help foundries improve productivity, reduce defects, optimize costs, and consistently produce superior-quality castings. Our goal is to become a trusted partner in your journey toward operational excellence and sustainable growth.



Sectional view of a casting mould



Silica Sand
 +
 Bentonite
 +
 Water
 +
VAMA Lustrous Carbon
 ↓
Uniform Green Sand
 ↓
Better Mold Properties
 ↓
Superior Casting Surface Finish

Green Sand System

Applications and Uses of Lustrous Carbon

Lustrous carbon is a highly specialized carbonaceous material generated through the thermal decomposition of coal dust, Gilsonite, or hydrocarbon-based additives in foundry molding sand. It has a bright, metallic, or glassy appearance and acts as a superior additive in high-temperature casting, creating a non-wetting barrier that enhances casting quality 🏭 casting quality.

Key Industries and Sectors

1 Foundry and Casting Industry (Primary Sector):

- Used as a molding sand additive to improve mold surface finish, prevent metal penetration, and improve casting 'peel' at shakeout.
- **Gray Iron Casting:**
Essential for reducing sand burn-on and improving surface smoothness.
- **Ductile Iron Casting:**
Helps manage surface defects during high-pressure molding

Specific Applications and Uses

• Molding Sand Additive:

- Added to green sand and resin-bonded sand systems to generate a carbon layer between the sand and molten metal.

Casting Defect Reduction: Minimizes defects such as scabbing, veining, pin-holing, and sand burn-on.

Improved Surface

Finish: Creates a smooth, shiny ('lustrous') finish on castings, reducing the need for post-casting machining.

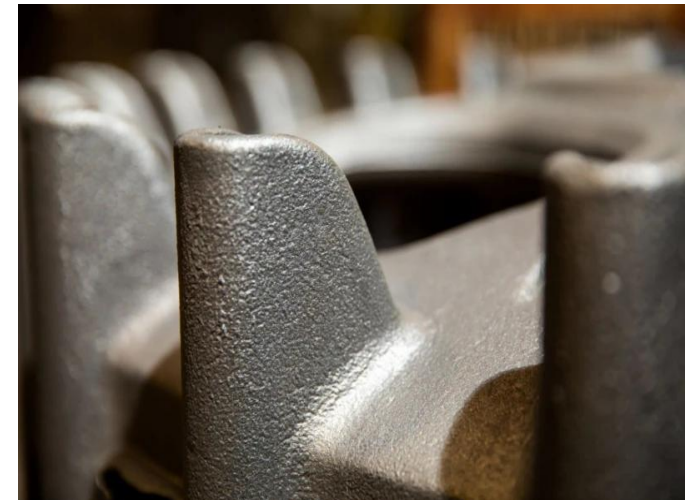
Product Specification	VAMA Lustrous-ShineX	VAMA Lustrous-Premium Grade	VAMA Lustrous Carbon Pro
Volatile Matter	55-60%	50-55%	45-50%
Ash Content	Max 7%	Max 6%	5-5.5%
Fixed Carbon	By Difference	By Difference	By Difference

VAMA Lustrous Carbon - Customized Solutions for Superior Casting Performance

VAMA Lustrous Carbon is a high-performance, customized carbonaceous additive specially developed for **green sand molding in ferrous foundries**. It is designed to generate an optimum lustrous carbon film at the mold-metal interface, resulting in superior casting surface finish, reduced metal penetration, minimized burn-on defects, and improved overall casting quality.

Our product is a proprietary blend of carefully selected and scientifically evaluated carbonaceous materials, formulated to provide consistent lustrous carbon generation while incorporating anti-scabbing properties for enhanced mold performance.

At **VAMA**, Lustrous Carbon is more than just a product—it is a complete foundry solution. Every supply is backed by our technical expertise and commitment to helping customers achieve consistent sand system performance and high-quality castings.



Advantage of VAMA Lustrous Carbon

- ✓ Better Surface Finish
- ✓ Improved sand peel off from the casting
- ✓ Reduced Metal Penetration
- ✓ Reduced shot blasting time for removing burned-on sand (sand peel-off)
- ✓ Lower Burn-on Defects
- ✓ Reduced sand related casting defects
- ✓ Reduced Fettling
- ✓ Lower Shot Blasting Cost
- ✓ Consistent Green Sand Performance



Benefits of VAMA Lustrous Carbon?

Customized Solutions: Formulated to suit your specific green sand system and casting requirements.

Superior Surface Finish: Produces a high-quality lustrous carbon film that improves casting appearance and reduces surface defects.

Reduced Casting Defects: Minimizes metal penetration, burn-on, scabbing, and sand adhesion.

Optimized Sand Performance: Enhances mold behavior without adversely affecting green sand properties.

Technical Expertise: Our recommendations are based on a thorough understanding of your foundry process and sand system.

Our Commitment

Every VAMA Lustrous Carbon solution is supported by:

Research – Understanding your foundry process, casting requirements, and green sand system before recommending the most suitable grade.

Technical Knowledge – Guidance on the correct dosage, introduction method, and application during sand preparation and molding.

Industry Experience – Practical expertise in green sand technology, enabling improved mold performance, enhanced casting quality, and reduced production costs.

At VAMA, we believe that delivering excellent casting results requires more than supplying a product—it requires delivering **knowledge, technical support, and reliable performance** with every shipment.

VAMA Lustrous Carbon – Engineered for Better Surface Finish, Lower Defects, and Consistent Foundry Performance.

All Lab and Quality Testing Done in VAMA

Ensuring high quality through comprehensive laboratory analysis and strict quality control processes

Dry Coal Testing



VM Testing for Lustrous Carbon



Coal Dust Size Testing

Coal Dust Moisture Testing

Sulphur % Testing

At **VAMA (Vedanta Allied Minerals & Alloys)**, we believe that supplying a high-quality product is only the beginning. Our commitment extends far beyond product quality by delivering technical expertise, process optimization, and continuous customer support to help foundries achieve consistent casting excellence.

To support our customers, VAMA offers **Green Sand Interactive**—a unique, value-added technical service designed to assist foundries in improving green sand performance, optimizing process parameters, and minimizing sand-related casting defects.

Our experienced technical team works closely with customers to analyze their green sand systems and recommend the most suitable Lustrous Carbon Additive solution based on their specific foundry requirements.

Scientifically engineered carbonaceous additive for optimum lustrous carbon generation, reduced burn-on, and improved peel-off characteristics.



Our Green Sand Interactive Services Include Green Sand Analysis & Benchmarking

Comprehensive evaluation of prepared green sand and carbonaceous additives, with performance benchmarking against VAMA's quality standards and laboratory reports.

Advanced Green Sand Laboratory

A well-equipped laboratory capable of conducting detailed green sand testing, supported by experienced professionals specializing in sand analysis and process optimization.

Expert Technical Consultation

Technical guidance from application engineers and foundry specialists with over **20 years of practical shop-floor experience** in green sand molding and ferrous foundry operations.

Customized Green Sand Solutions

Tailor-made recommendations for improving sand properties, optimizing additive dosage, enhancing casting surface finish, reducing defects, and improving overall process efficiency.



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Tailor-made recommendations for improving sand properties, optimizing additive dosage, enhancing casting surface finish, reducing defects, and improving overall process efficiency.

Green Sand Consultancy

End-to-end technical consultancy covering:

Green sand system optimization

Lustrous Carbon Additive selection

Coal Dust optimization

Bentonite optimization

Moisture and compactability control

Casting defect analysis and corrective actions

Cost reduction through improved sand management

Dedicated Technical Support

Responsive after-sales support to assist customers with product application, troubleshooting, process improvements, and continuous performance optimization.

Customer Performance Reports

Access to technical reports, test data, application recommendations, and performance analysis to help customers monitor and continuously improve their green sand systems.

VAMA Lustrous Carbon Solution workflow

Raw Material(imported coal from USA, Indonesia)



VAMA Manufacturing(Bhilai , Chhattisgarh)



Laboratory Testing



Green Sand System



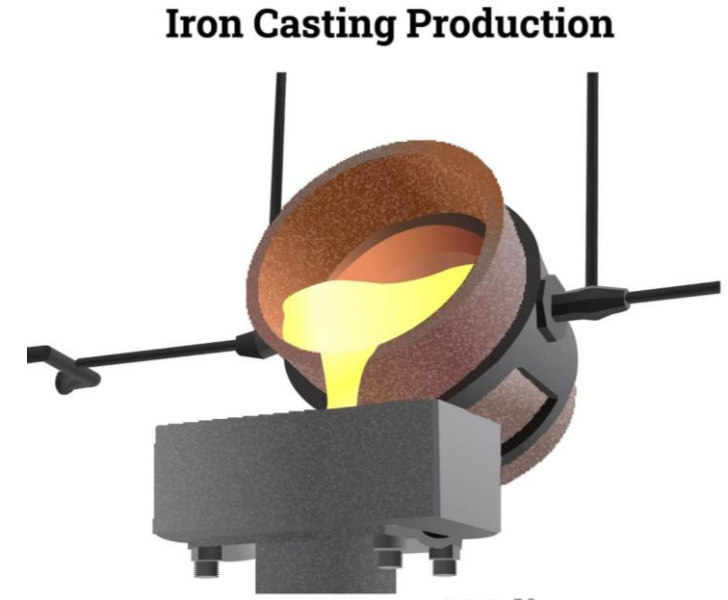
Molten Metal



Excellent Surface Finish



Happy Customer



FOUNDRY SLEEVES SUPPLIER

PRECISION SLEEVES. SUPERIOR CASTINGS.

VAMA supplies high-quality Foundry Sleeves / Exothermic & Insulating Sleeves designed to support efficient feeding and controlled solidification during the casting process. Our focus is on supplying consistent-quality foundry consumables that help foundries improve casting performance and reduce rejection.



Consistent
Dimensions &
Quality



High Strength
& Thermal
Stability



With / Without
Filter Options
Available



Multiple Sizes as
per Requirement



Reliable & Timely
Supply



SERVING

- Iron Foundries
- Steel Foundries
- SG / Ductile Iron Foundries
- Engineering Casting Units

Manufacturing Unit : Bhilai, Chhattisgarh

Godown : Kolhapur, Maharashtra

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DRY SAND SUPPLY FOR FOUNDRY

CONSISTENT SAND. STRONG MOULDS. QUALITY CASTINGS.

VAMA supplies Dry Sand for foundry applications, with emphasis on consistent quality, controlled sizing and dependable bulk supply. Good-quality foundry sand plays an important role in mould preparation, casting surface finish and overall process consistency.



Consistent
Grain
Characteristics



Controlled
Moisture
Content



Good
Flowability



Suitable for
Moulding &
Core Making



Bulk Quantity
Supply



Customized
Specifications
Subject to Requirement



APPLICATIONS



Moulding



Core Making



Sand Preparation



General Foundry
Applications

Manufacturing Unit : Bhilai, Chhattisgarh

Godown : Kolhapur, Maharashtra

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info@vedantaalloys.com

SUPPLIER OF FOUNDRY ALLOYS

QUALITY ALLOYS FOR STRONGER CASTINGS

VAMA supplies a range of Foundry Alloys and Metallurgical Raw Materials to support iron, steel and SG/ductile iron foundries. Our focus is on consistent chemistry, dependable sourcing and timely supply to help foundries maintain stable production and casting quality.



Quality-Focused
Sourcing



Competitive
Commercial Terms



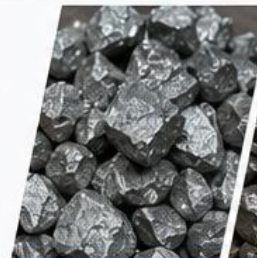
Regular &
Bulk Supply



One Stop Solution for
Multiple Foundry Raw
Materials



Responsive
Logistics Support



FERRO
SILICON
(FeSi)



FERRO
MANGANESE
(FeMn)



FERRO
CHROME
(FeCr)



SILICON
MANGANESE
(SiMn)



INOCULANTS &
NODULARIZERS
/ SG IRON ADDITIVES
& Others

Manufacturing Unit : Bhilai, Chhattisgarh

Godown : Kolhapur, Maharashtra

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How to contact with VAMA



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