

A Manufacturer of
**INVESTMENT
CASTING
WAXES**



Consistent.
Performance.
"For High Quality Patterns"
Each and Every Time

Get in touch.

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OUR WEBSITE



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www.saffroshine.com



INVESTMENT
CASTING
WAXES

WELCOME TO
SAFFROSHINE
ORGANICS

Saffroshine Organics is the leading specialist in the manufacture and supply of a complete range of investment casting wax materials and technical services to foundries worldwide. operating from Manufacturing site in the India & exporting to global markets.



INVESTMENT CASTING WAXES IS CORE BUSINESS OF SAFFROSHINE AND COMPANY CONTINUES TO UPGRADE ITS CAPACITY AND PROCESS CONTROLS TO ENHANCE BATCH TO BATCH CONSISTENCY.



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OUR VISION

Saffroshine Organics is the leading specialist in the manufacture and supply of a complete range of investment casting wax materials and technical services to foundries worldwide. operating from Manufacturing site in the India & exporting to global markets.

OUR MISSION

- 01 Fulfilling our customers' needs for enhanced production and productivity for their wax room with our comprehensive products.
- 02 Transferring the brand values of Saffroshine, premium quality strict quality control and consistency on our complete product range.
- 03 Developing products which stand for quality and safety and further more set standards in terms of innovation and outstanding performance.
- 04 Ensuring advance and efficient Production processes.
- 05 Looking at our employees as key success factor and offering them an attractive working environment.
- 06 Being a reliable and long-term oriented partner for our customers, suppliers, employees and colleagues.





MODERN WAX ROOM REQUIREMENT'S

- Ideal flexibility to avoid brittle fractures in thin-walled parts of the model.
- Sharp and smooth surface finish with sufficiently hard surfaces in solid states.
- Developed for mass production with excellent productivity.
- Minimal ash content.
- Excellent temperature stability.

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Saffroshine Products and Services

We offer state-of-the-art investment casting waxes which are consistent in performance . All of them are designed with reclamation in mind to provide our customers a cost effective way of utilizing the system waxes.

- Filled pattern waxes
- Non-Filled Waxes
- Utility waxes
- Runner waxes □ Repair waxes
- Assembly wax □ Water soluble waxes



FILLED PATTERN WAXES



High-fill | Ideal-fill | Low-fill

Filled with fillers such as Purified Terephthalic Acid (PTA), cross-linked polystyrene (XLPS), excellent dimensional stability & mass production.



NON FILLED PATTERN WAXES



TIGHT DIMENSIONAL
CONTROL ACCOMPANIED
BY FASTER CYCLE TIMES.

- Excellent Dimensional Accuracy
- Producing Parts With Greater Stability
- Reduced Contraction Rates
- High Quality Surface Finish
- Low Melt Viscosity, For Good Flow Properties

ENGINEERED FOR
VERSATILE PERFORMANCE

Non-filled pattern waxes developed and manufactured to mimic filled wax performance in many applications.

- Highest Injected Pattern Surface Quality.
- Can Be Used Where The Injection Equipment Available Lacks Proper Mixing Capability.
- Can Be Used At Low Injection Pressure.



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UTILITY WAXES



WATER SOLUBLE WAX

For injecting intricate quick leaching cores.

Saffroshine offers full range of soluble waxes to tackle most standard applications giving excellent dimensional accuracy, fast leaching and fine surface finish.

ADVANTAGES

The Low Viscosity Of Water Soluble Wax Aids The Blends In Filling Even The Most Complex Dies, Producing Sharply Defined Patterns. This Makes The Wax Ideal For Application In The Casting Where Surface Details Is Most Important.

Water Soluble Wax Is Tough , Flexible and Resist Breakage And Chipping During Production. Its Excellent Flow Properties Allow Water Soluble Wax To Perform Excellently Without Using Chills For Small To Medium Sized Patterns

This Wax Is Specially Designed Where Small Components Are To Be Mass Produced While Keeping The Cost Competitiveness In Mind.



ASSEMBLY WAX STRONG ASSEMBLY CONTROLLED BOND

Saffroshine offers a Tailor-made range of Assembly waxes enabling smooth production of the pattern assembly and optimal performance in the shell creation process.

ADVANTAGES

High Quality Surface Finish
Resistant To Crazing And Cracking



UTILITY WAXES



REPAIR WAX PERFECT THE IMPERFECT

Saffroshine offers versatile blends of Repair/patching wax that aid the investment caster in the repairing of defects in patterns, wax assemblies and soluble cores.

ADVANTAGES

QUICKPATCH Is A Versatile Repair/Patching Wax Which Can Be Warmed In The Hand To Soften For Patching Or Can Be Melted And Be Applied In Liquid State.

QUICKPATCH Waxes Can Be Supplied In Both Bucket And Slab Forms.

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RUNNER WAX CONSISTENT STRENGTH WITH CLEAN BURNOUT

Saffroshine offers a tailored range of virgin runner waxes to provide a clean and robust gating system for all scales of assembly requirements.

ADVANTAGES

Saffroshine's CLEANRUN Is An Non-Filled Wax With Combination Of Pattern Waxes High Strength And Consistency With Having Both Low Melting And Congealing Points Making Them Suitable For Liquid, Paste Injection And Extrusion Methods For Runner/Sprue.

The Low Melting Point And Viscosity of CLEANRUN Runner Wax Aids The Better Dewaxing and A Clean Burnout 1. Saffroshine's Cleanrun Is Blended For Critical Assemblies Where Thermal, Mechanical And Rheological Requirements Are Most Demanding

Saffroshine's Cleanrun Is Blended For Critical Assemblies Where Thermal, Mechanical And Rheological Requirements Are Most Demanding

RECYCLING PROCESS



BASIC RECYCLING PROCESS

The Basic Recycling process is best suited to customers with high filler content waxes or even non-filled waxes. This process limits loss of volume by keeping the majority of the filler material in the wax, while removing the refractory contamination and water.

This process is primarily suited for customers that are pouring non-reactive metals as the residual ash content will be higher than a fully recycled or virgin wax product. The high yields of the process are useful for keeping costs low for very price sensitive markets.

ADVANCED RECYCLING PROCESS

Saffroshine advance recycling process has been optimized over several decades. It removes all water, solid particulates and metallic contaminations from the spent wax, essentially scrubbing the wax from its contaminants.

In this process the wax is examined for its lost physical and chemical properties and then balanced by accurate additions to each and every batch.

This process is able to be used on both filled and non-filled wax all reclaimed wax can be used for sprue and gating, as well as a component in pattern waxes to help reduce overall wax costs, disposal costs of spent wax and result in a greener operation.



TESTING FACILITY



Melting Point

The melting point provides information on the solid-liquid phase-transition

Congeeing Point

The congealing point provides information on the liquid-solid phase-transition

Elemental Ash testing

It represents the percentage of non-combustible solids contained in the compound. Low ash contents are a certainty for our investment casting waxes. Our laboratories rigorously test every batch to ensure residual ash levels meet our specifications

Needle Penetration

The penetration of wax compounds is the distance in tenths of millimetre's that a standard needle penetrates vertically into a sample of material under fixed conditions of load, time and temperature.

Dimensional Performance testing

Test of wax on specific temperature and injection pressure. We have a wide variety of too-ling in order to test behaviour of wax after injection.

Differential Scanning calorimetry (DSC)

Controlled heat flow during the solidification and melting stages of a pattern wax is important. Therefore for consistent wax thermal behaviour these waxes are tested via DSC analysis.

Fourier-transform infrared spectroscopy (FTIR)

FTIR test is carried out for material composition testing and is used for development of our waxes

Viscosity test

Viscosity is fundamental to understand how wax injects and dewaxes from shell . We test viscosity of every batch we produce and in addition for our development of wax lines.



Why Saffroshine

knowledge and experience is the reason of our success in the development and production of investment casting waxes.

Using highest quality raw materials as the ultimate quality of castings depends primarily on the quality of wax patterns



OUR FOUNDRY INDUSTRY SERVED



Automotive



Aerospace



General Casting



Industrial Turbines



Medicals Implants



Jewellery

OUR COMPETITIVE ADVANTAGE

Cost Competitive

More than three decade of experience in Manufacturing investment casting waxes our team have blended Excellent quality pattern waxes at competitive prices.

Highest Quality Standard

highest quality raw materials are used to achieve highest quality and consistency standards.

Fully Automated Machinery

From blending to packing fully automated equipment ensure least humane error and contamination.

Stringent Quality Checks

each and every batch is tested under highly sophisticated testing equipment's to ensure consistency

ISO Certified Company

Saffroshine Organics Pvt.Ltd is ISO9001:2015 certified.



OUR GLOBAL PRESENCE

WE ARE COMMITTED TO EXPORTING



Turkey Taiwan
China Russia
South Africa
Germany
Iran Bahrain

Key Strategic Focus

Customer experience

Our customer-centred approach generates the benefits of superior products, services and solutions.

People

People with talent, ideas and energy, who take up the challenge of meeting our customers' needs, are the key to our success.

Process excellence

Process excellence drives business excellence. Saffroshine's vision is focused on continuous improvement in processes, quality and R&D development.

Growth

We set ambitious goals to deliver what we promise. We understand our customers have a choice, and we have to continuously earn their trust through constant excellence. We always compete with integrity, with our values and ethical standards in order to win new business

