



JAY METALS
RELIABLE WATER SOLUTIONS

PRODUCT CATALOGUE

ENGINEERED IN INDIA • TRUSTED WORLDWIDE



www.jaymetals.in



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ABOUT US

Jay Metals is a trusted name in water management and treatment solutions, offering high-quality engineering products designed to deliver performance, reliability, and durability.

From filtration components to complete water systems, we cater to a wide range of clients – from residential developers to industrial facilities – across India and global markets.



OUR EXPORT DIVISION

To meet the growing international demand for reliable water treatment products, Jay Metals established its Export Division, specializing in filter cartridges and softening consumables that meet global quality benchmarks.



Manufacturing Excellence

ISO-certified production facility with precision QC systems



OEM / Private Label Support

Custom branding and packaging for international partners



Global Export Readiness

Flexible shipping and documentation for worldwide clients



Efficient Logistics

Palletized export packaging and container optimization



Product Innovation

Continuous R&D for performance enhancement



Customer Focus

Dedicated export support team ensuring smooth communication

PP SPUN FILTER CARTRIDGE

PRODUCT DESCRIPTION

Jay Metals PP Melt Blown Filter Cartridges are precision-engineered from 100% pure polypropylene fibers using advanced melt-blown technology.

Their graded density structure ensures superior dirt-holding capacity, low pressure drop, and extended service life.

Free from adhesives or binders, they offer excellent chemical resistance and consistent filtration performance across industrial, commercial, and residential systems.



APPLICATIONS

PP Melt Blown Filters are used across a wide range of industries for pre-filtration and fine filtration in liquid processing:

- Reverse Osmosis (RO) and pre-filtration systems
- Industrial and municipal water treatment plants
- Food & beverage production and bottling facilities
- Pharmaceutical and laboratory filtration systems
- Petrochemical, ink, and paint industries
- Cooling water and boiler feed systems

KEY BENEFITS

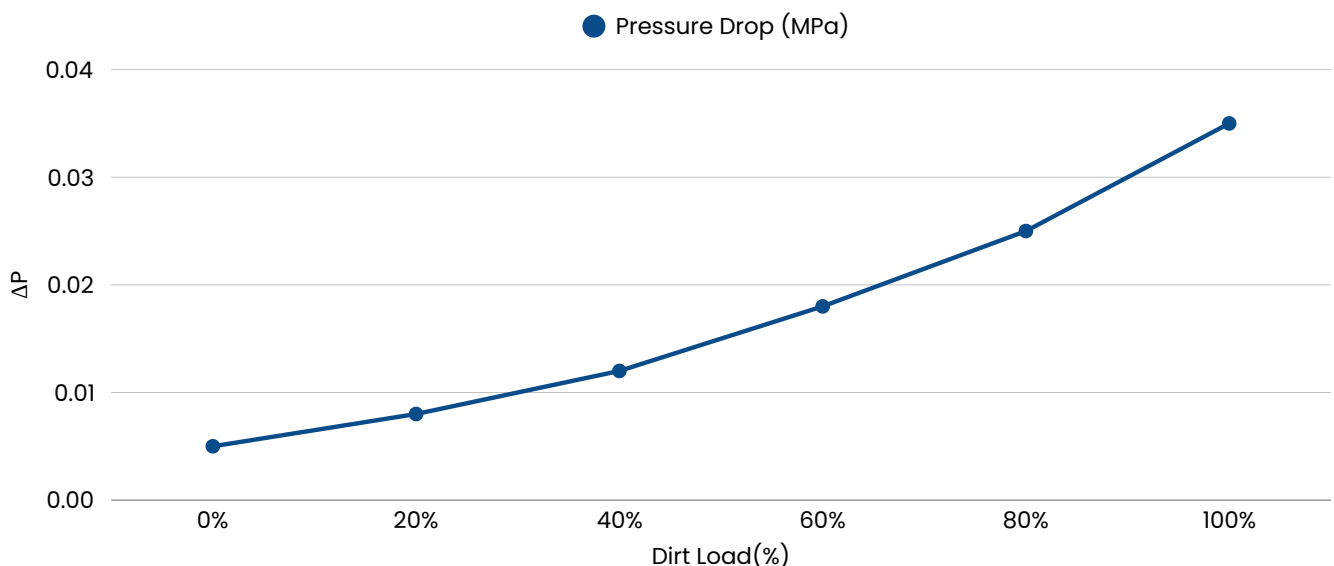
- 100% food-grade polypropylene construction — non-toxic and odorless
- High dirt-holding capacity with graded density structure
- Excellent chemical resistance (pH range: 1–13)
- Low pressure drop and long service life
- Thermally bonded fibers — no adhesives or binders used
- Cost-effective solution for reliable filtration performance
- Compatible with most standard filter housings and systems

TECHNICAL SPECIFICATIONS

Material	100% Pure Polypropylene
Lengths Available	10", 20", 30", 40"
Diameter available	2.5", 4", 4.5", 6"
Maximum Differential Pressure	≤ 0.4 MPa
Micron Ratings Available	1, 5, 10, 20, 50 μ m
Chemical Compatibility	pH 1–13
Recommended Flow Rate (for 10")	6–8 L/min (varies with micron rating)

Jumbo options also available in all sizes and diameters.

We also manufacture custom sizes and specifications of PP Melt Blown Filters to meet the unique requirements of our clients and OEM partners.



PRODUCT GALLERY



WOUND FILTER CARTRIDGE

PRODUCT DESCRIPTION

Jay Metals String Wound Filter Cartridges are depth filters made from high-quality polypropylene yarn precisely wound around a sturdy polypropylene core. The unique winding pattern creates a progressive density structure — coarse on the outside and finer toward the core — enabling the cartridge to effectively trap particles of varying sizes throughout its depth. This advanced design ensures high dirt-holding capacity, low pressure drop, and extended service life, making it ideal for industrial and commercial water treatment systems.



APPLICATIONS

String Wound Filters are widely used for pre-filtration and fine particulate removal in:

- Industrial and municipal water treatment
- Reverse osmosis (RO) and softener pre-filtration
- Food & beverage processing
- Chemical and petrochemical industries
- Pharmaceutical and laboratory systems
- Paints, inks, and resins manufacturing

KEY BENEFITS

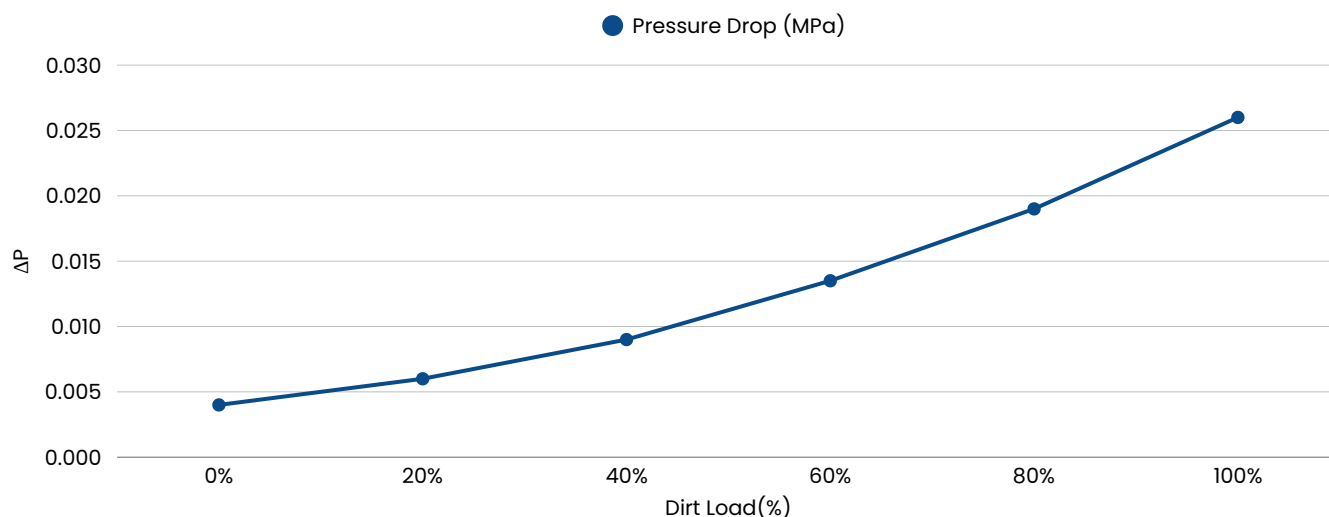
- 100% polypropylene yarn and core construction
- Graded density design for efficient depth filtration
- High dirt-holding capacity and long service life
- Low initial pressure drop and consistent flow rate
- Excellent chemical compatibility (pH range: 1–13)
- No adhesives or binders — thermally bonded and clean
- Fits most standard filter housings and systems

TECHNICAL SPECIFICATIONS

Core Material	100% Pure Polypropylene
Filter Media	Polypropylene Yarn
Lengths Available	10", 20", 30", 40"
Micron Ratings Available	1, 3, 5, 10, 20, 30, 50 μ m
Maximum Differential Pressure	≤ 0.2 MPa
Recommended Flow Rate (for 10")	10 – 35 L/min(depends on micron rating)
Chemical Compatibility	pH 1–13
Diameter available	2.5", 4", 4.5", 6"

Jumbo options also available in all sizes and diameters.

We also manufacture custom sizes and specifications of Wound Filter Cartridges to meet the unique requirements of our clients and OEM partners.



PRODUCT GALLERY



PP PLEATED FILTER CARTRIDGE

PRODUCT DESCRIPTION

Jay Metals PP Pleated Filter Cartridges are precision-engineered for high-performance filtration across a wide range of applications.

Manufactured using 100% polypropylene media and core, these cartridges deliver low pressure drop, high flow rates, and exceptional dirt-holding capacity.

The pleated design offers a significantly larger surface area compared to depth filters, ensuring extended service life and consistent performance.



APPLICATIONS

PP Pleated Filters are widely used for fine filtration, clarification, and final polishing across industrial, commercial, and domestic applications:

- Reverse Osmosis (RO) pre-filtration systems
- Food and beverage processing
- Pharmaceuticals and laboratory use
- Chemical and electroplating industries
- Power plants and boiler feed water
- Electronic and semiconductor processes

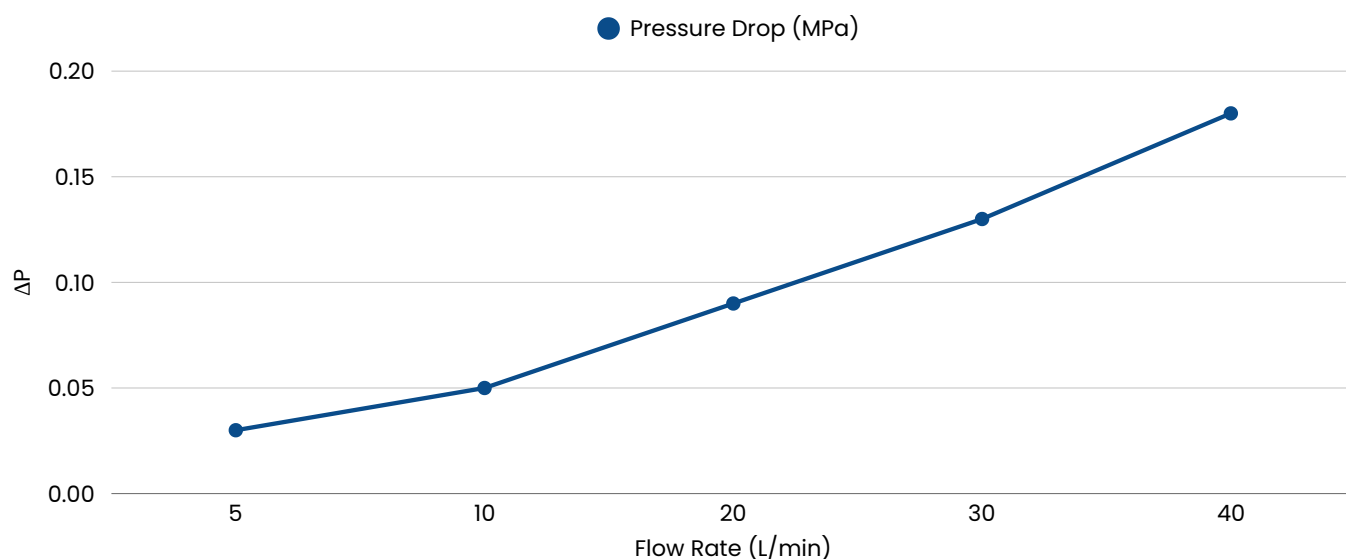
KEY BENEFITS

- 100% polypropylene construction — media, core, and end caps
- Pleated design for large filtration area and longer service life
- High flow rate with minimal pressure drop
- Excellent chemical compatibility (pH 1–13)
- Free from adhesives, binders, and surfactants
- Wide range of micron ratings (0.2 µm to 100 µm)
- Fits standard DOE / SOE housings
- Suitable for sterilization and backwashing applications

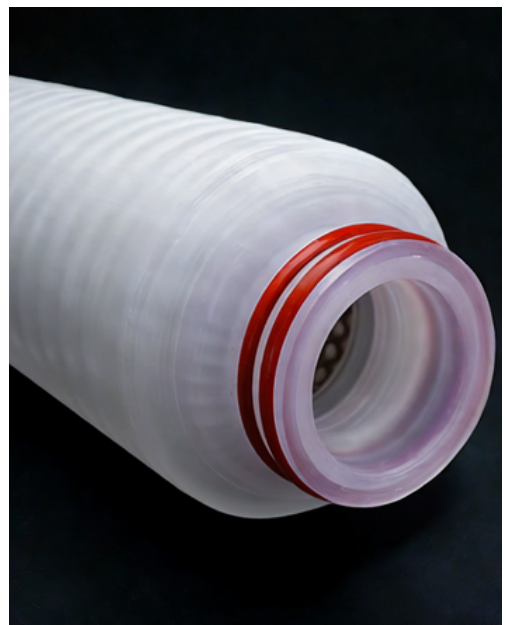
TECHNICAL SPECIFICATIONS

Material	100% Pure Polypropylene
Diameter available	2.5", 4", 4.5", 6"
Lengths Available	10", 20", 30", 40"
Micron Ratings Available	1, 3, 5, 10, 20, 30, 50 μm
Maximum Differential Pressure	$\leq 0.25 \text{ MPa}$
Recommended Flow Rate (for 10")	15 – 40 L/min (depends on micron rating)
Chemical Compatibility	pH 1–13

We also manufacture custom sizes and specifications of PP Pleated Filter Cartridges to meet the unique requirements of our clients and OEM partners.



PRODUCT GALLERY



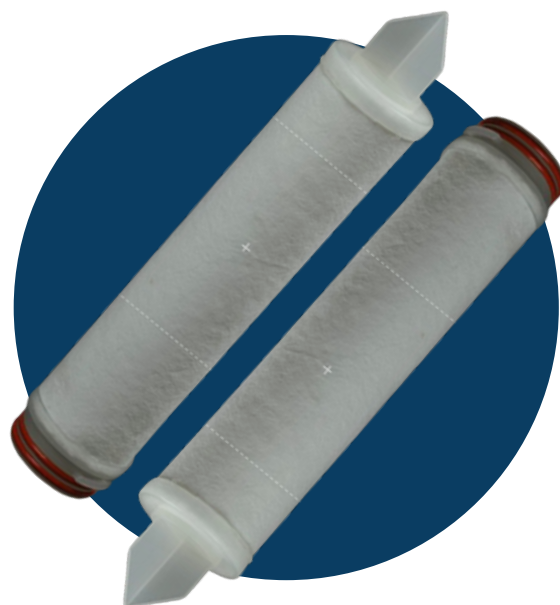
PP SPUN SOE FILTER CARTRIDGE

PRODUCT DESCRIPTION

Jay Metals PP Spun SOE Filter Cartridges are designed for high-efficiency filtration in systems requiring a secure single open-end (SOE) seal.

Constructed from 100% pure polypropylene using melt-blown technology, these filters ensure graded density filtration, delivering low pressure drop and long service life.

Their SOE design provides reliable sealing in critical process housings, preventing bypass and ensuring consistent filtration results.



APPLICATIONS

PP Spun SOE Filters are widely used for fine pre-filtration and polishing applications in:

- Reverse osmosis (RO) and desalination systems
- Food and beverage industries
- Chemical and process water systems
- Pharmaceutical and laboratory filtration
- Power plants and boiler feed water

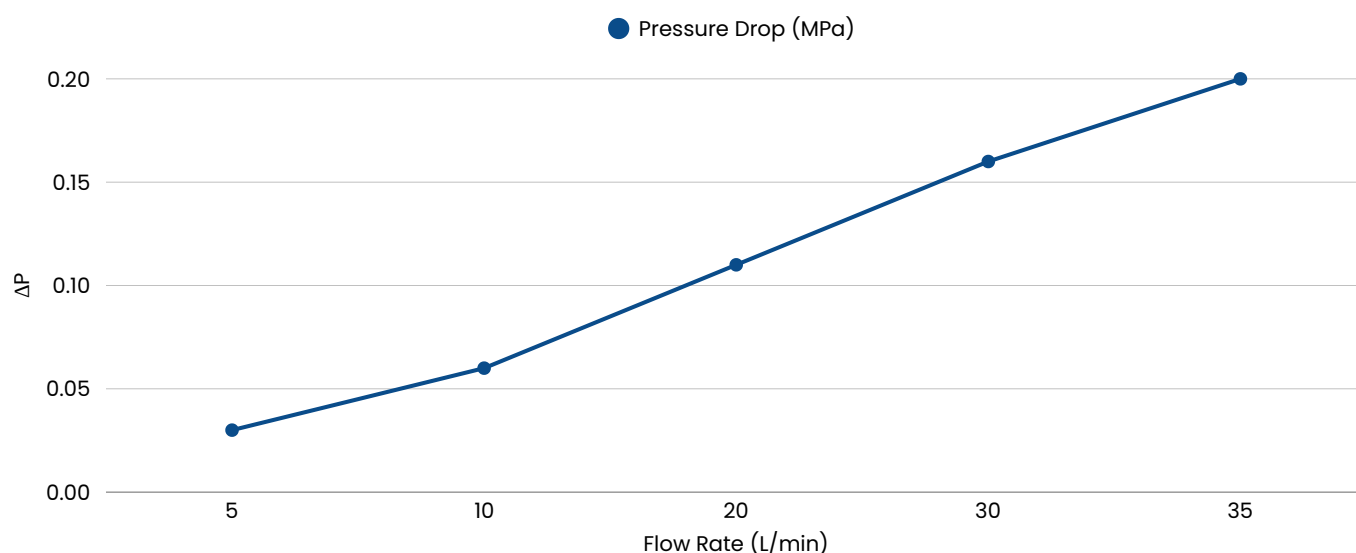
KEY BENEFITS

- 100% polypropylene construction for purity and chemical resistance
- SOE design prevents bypass and ensures positive sealing
- Compatible with 222 and 226 end connections (Flat / Fin)
- High dirt-holding capacity and consistent micron performance
- Thermally bonded structure with no adhesives or binders

TECHNICAL SPECIFICATIONS

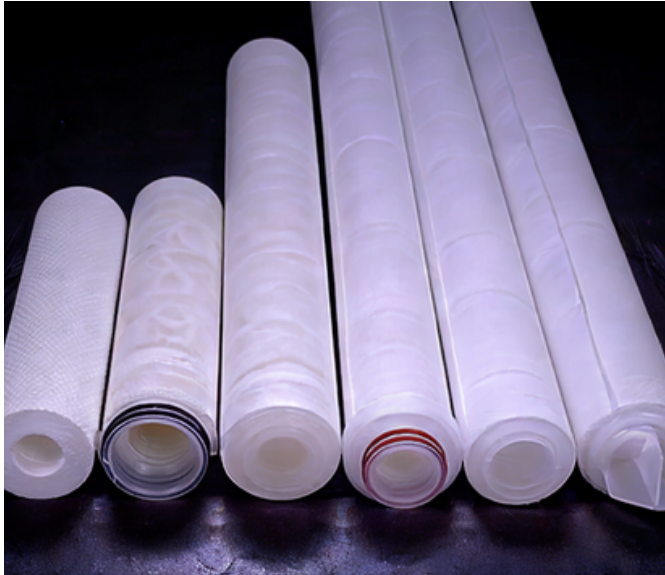
Material	100% Pure Polypropylene
Diameter available	2.5"
Lengths Available	20", 30", 40"
Micron Ratings Available	1, 3, 5, 10, 20, 30, 50 μm
Maximum Differential Pressure	$\leq 0.2 \text{ MPa}$
End Connection Type	Single Open End (SOE)
Chemical Compatibility	pH 1–13
End Configurations	222 / 226 Flat or Fin

We also manufacture custom sizes and specifications of PP Spun SOE Filter Cartridges to meet the unique requirements of our clients and OEM partners.





PRODUCT GALLERY



WOUND SOE FILTER CARTRIDGE

PRODUCT DESCRIPTION

Jay Metals String Wound SOE Filter Cartridges combine depth filtration performance with a secure single open-end design, ensuring zero leakage and reliable operation in high-demand environments.

Made from polypropylene yarn wound around a PP core, these filters offer graded density filtration – coarse outer layers capture larger particles, while fine inner layers ensure precision filtration.

The SOE configuration with 222/226 ends provides superior sealing in critical systems where purity and safety are paramount.



APPLICATIONS

String Wound SOE Filters are ideal for pre-filtration and final polishing in:

- RO plants and softening units
- Food & beverage production lines
- Petrochemical and process industries
- Power plants and cooling systems
- Laboratory and pharmaceutical systems

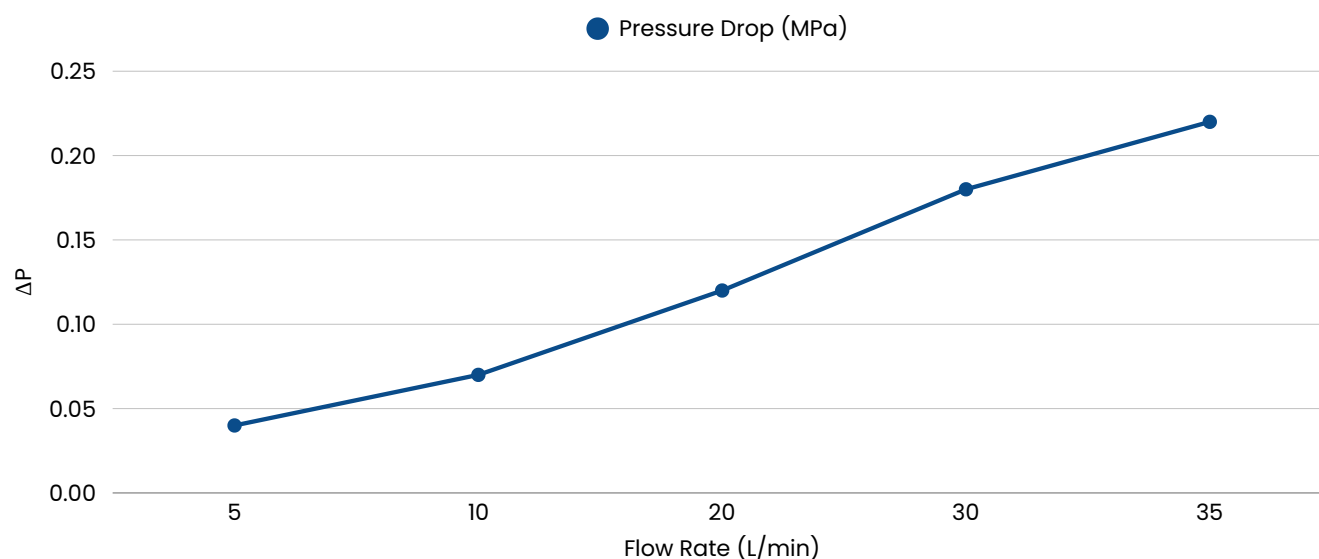
KEY BENEFITS

- Polypropylene yarn and core for chemical compatibility
- SOE (Single Open End) design prevents leakage and bypass
- Compatible with 222 and 226 end connections (Flat / Fin)
- Graded density for superior dirt retention and long service life
- Excellent flow characteristics and low pressure drop
- High mechanical strength – maintains integrity under variable pressure conditions
- Compatible with most standard filter housings and easy to install / replace

TECHNICAL SPECIFICATIONS

Material	100% Pure Polypropylene
Diameter available	2.5"
Lengths Available	20", 30", 40"
Micron Ratings Available	1, 3, 5, 10, 20, 30, 50 μm
Maximum Differential Pressure	$\leq 0.2 \text{ MPa}$
End Connection Type	Single Open End (SOE)
Chemical Compatibility	pH 1–13
End Configurations	222 / 226 Flat or Fin

We also manufacture custom sizes and specifications of PP Wound SOE Filter Cartridges to meet the unique requirements of our clients and OEM partners.



PRODUCT GALLERY



SALT TABLETS

PRODUCT DESCRIPTION

Jay Metals Salt Tablets are premium-grade 99.9% pure sodium chloride (NaCl) tablets, specially formulated for use in water softeners, industrial systems, and swimming pools.

Manufactured from refined vacuum salt, each tablet is uniformly compacted and smooth, ensuring consistent dissolution, maximum efficiency, and long-lasting performance in all types of brine tanks and softening units.

Engineered for purity, consistency, and efficiency — Jay Metals Salt Tablets deliver reliable water softening performance worldwide.



APPLICATIONS

Jay Metals Salt Tablets are suitable for a wide range of uses including:

- Domestic and Industrial Water Softeners – for scale prevention and system protection
- Swimming Pools – for chlorine generation and water balancing
- Food & Beverage Industry – for process and cleaning water softening
- Hotels, Hospitals & Laundries – for efficient equipment operation
- Industrial Plants – for softening feed water and boilers

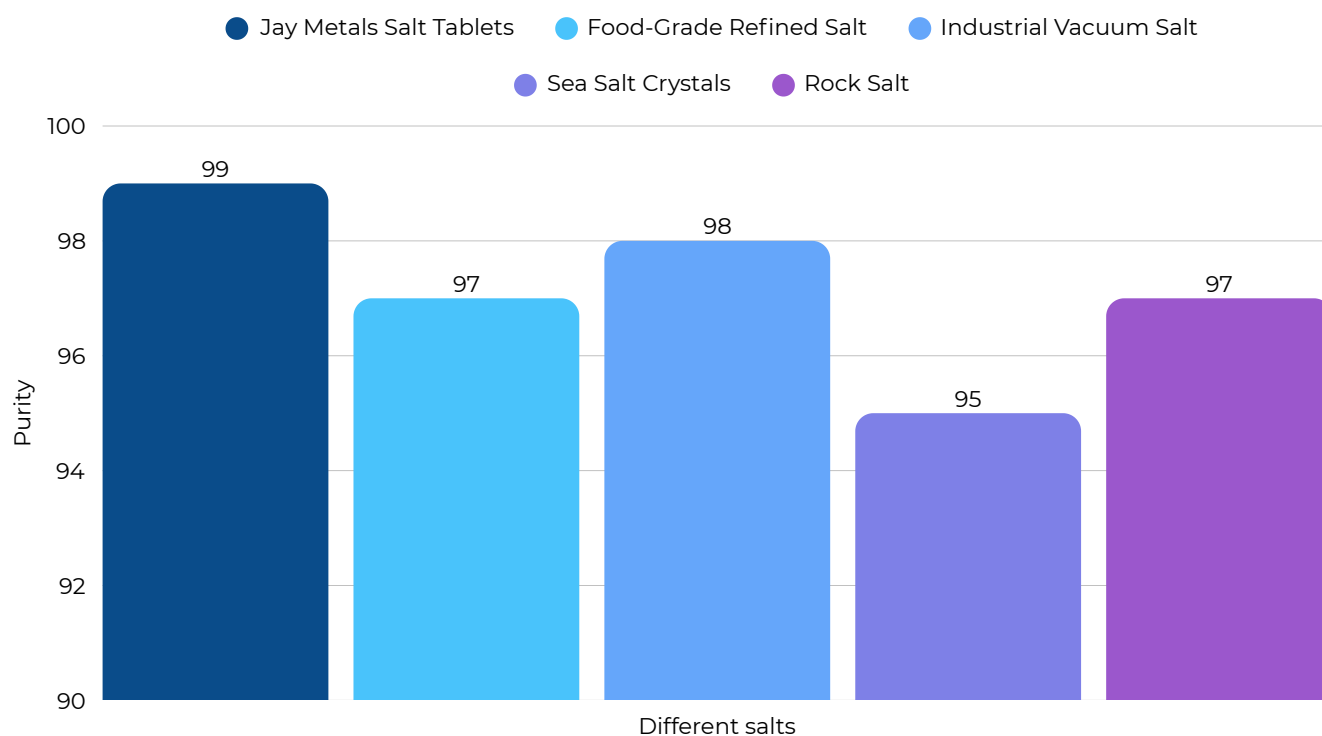
KEY BENEFITS

- 99.9% pure NaCl – refined vacuum salt for optimal performance
- Round, uniformly pressed tablets for consistent brine formation
- Free from additives, anti-caking agents, and impurities
- Ensures efficient regeneration of ion-exchange resins
- Prevents bridging, mushing, and residue buildup in softeners
- Compatible with all domestic and industrial water softening units
- Ideal for hard water treatment, boilers, and pool systems

PHYSICAL PROPERTIES

Form	Round Tablets
Purity	99.9% Pure NaCl
Diameter	20 – 25 mm
Weight Per Tablet	~15–20 g
Solubility	> 99.5%
Density	2.16 g/cm ³
Hardness	> 100 N

We provide variable packaging options and tablet sizes for Salt Tablets, customized as per client and export requirements.



We provide variable packaging options and tablet sizes for Salt Tablets, customized as per client and export requirements.

PRODUCT GALLERY



MANUFACTURING AND QUALITY CONTROL

At Jay Metals, every product is manufactured in a state-of-the-art facility equipped with modern machinery, automated production systems, and advanced testing instruments. Our controlled production process ensures uniform quality, dimensional accuracy, and material consistency across all product categories – from PP Melt Blown Filter Cartridges to Salt Tablets.

Highlights:

- In-house production for all major components
- CNC-controlled equipment and precision winding systems
- Automated melt-blown fiber formation and filtration testing
- Dust-free packaging and storage environments
- Strict batch traceability and documentation

Key Tests Conducted:

Test Type	Purpose
Dimensional Accuracy Check	Ensures cartridge fit and seal integrity
Pressure Drop Test	Confirms performance under flow conditions
Filtration Efficiency Test	Validates micron rating and dirt holding
Material Purity Analysis	Ensures raw material and polymer grade consistency
Dissolution Test (for Salt Tablets)	Verifies uniform solubility and compactness
Chemical Compatibility	Confirms resistance to acids, alkalis, and solvents

Certified Under:

- ISO 9001:2015 – Quality Management
- 100% Made in India
- OEM / Private Label Manufacturing Supported

GET IN TOUCH



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