Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

JPT GLOBAL

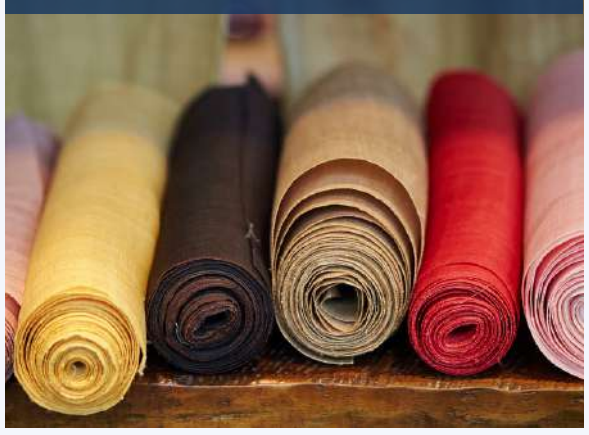
SINCE
1973

We focused on the manufacturing of Filter Products like filter bags and cloth.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

A BRIEF STORY ABOUT THE COMPANY

JPT GLOBAL



About Us

Ever since the inception of the company in 1973, ***JPT GLOBAL*** is focused on the manufacturing of Filter Products like filter bags and cloth (using woven and non-woven filter media) like Centrifuge Bags, Dust Collector Bags, Candle Filter, FBD, Anode Bags, Filter Press Butterfly, Filter Press Sheet, Sparkler Filter Pads, Antistatic Bags etc.

We are equipped with well trained and dynamic team to take care of all the ethical practices of quality, hygiene and accuracy. Our constant iteration on the entire product range has labeled us as the distinguished manufacturer of filter products. Questionnaire containing specifications is provided to customers before accepting orders so that any kind of discrepancy is circumvented.

Our dedicated and committed Management Team persistently endeavors to evolve strategies that aim to streamline complete cycle starting from procuring of raw material to post production evaluation by Quality Assurance Team. That is why our products are proclaimed as reliable, durable and stable.

In future, we are going to distinguish our self with the latest state of the art infrastructures like Sterilization Plant, Calendar Machine and Vacuum Packaging which manifests our creative and progressive approach in a competitive market.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

VISION

To be a global leader in manufacturing reliable, durable, and innovative filter products by embracing advanced technology and ethical practices, ensuring superior quality and customer satisfaction.

MISSION

01 Deliver premium-quality filter products using woven and non-woven media that meet diverse industry requirements with precision and consistency.

02 Adopt ethical practices of quality, hygiene, and accuracy through a dynamic and skilled workforce.

03 Continuously innovate and upgrade with modern infrastructure and advanced machinery to stay competitive and progressive in the global market.

04 Ensure customer satisfaction by providing customized solutions, detailed specifications, and reliable post-production quality assurance.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Infrastructure & Capabilities

Equipped with weaving, testing, and lazer cut machines, JPT ensures precision, quality, durability, and innovation through advanced textile infrastructure.

01

WEAVING MACHINE

We have an inbuilt installation of weaving looms which operate relentlessly to satisfy demands of customers. These looms are proficient enough to produce fabric of varying sizes. Also, they can be set up to fabricate qualities that keep vacillating from customer to customer.

02

TESTING MACHINE

Testing equipment which has the potential to weigh certain parameters essential to the production of products like GSM, Thickness and Tensile strength. Each and every production undergoes methodical testing before the goods are dispatched to ensure accuracy of the quality.

03

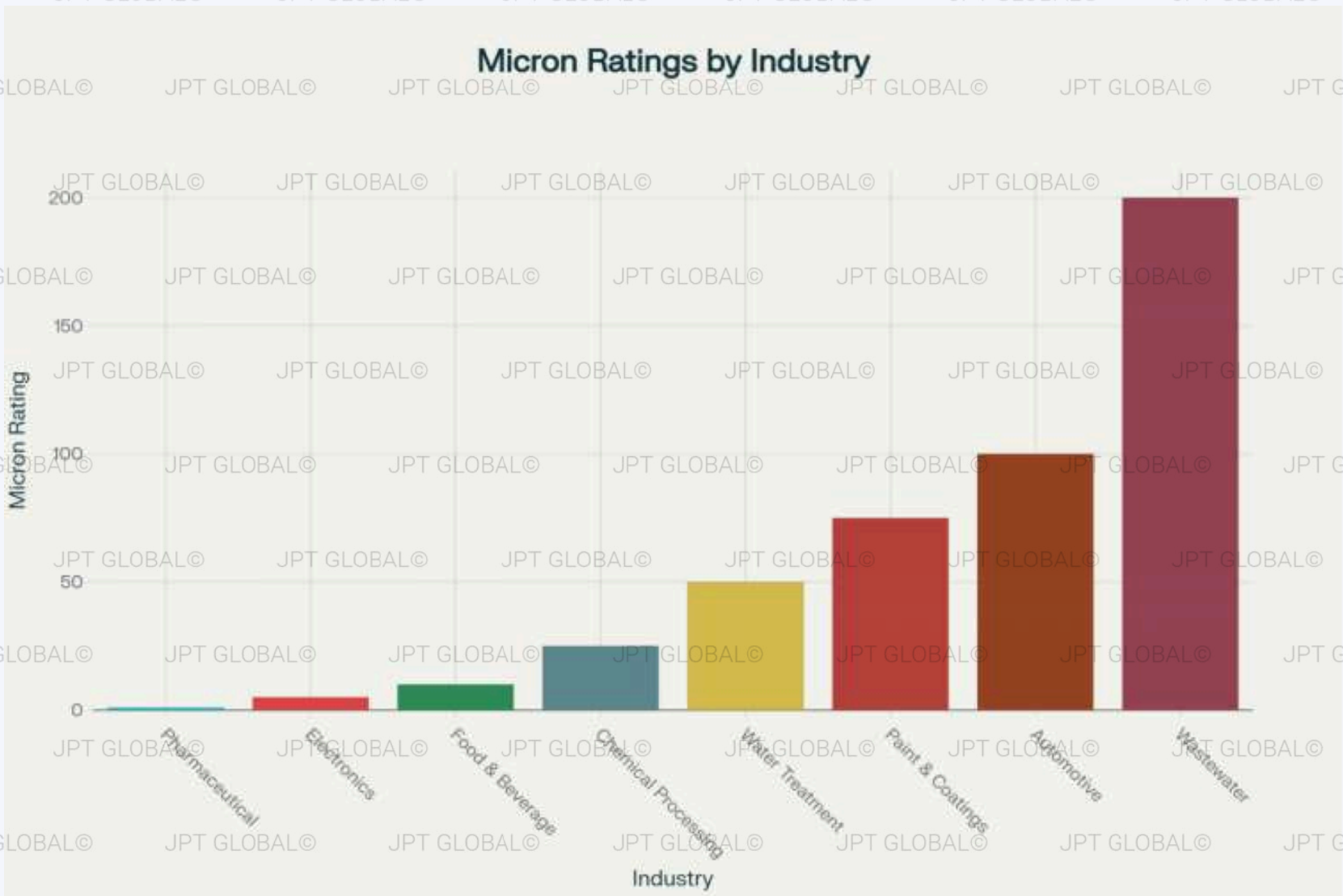
LAZER CUT MACHINE

Our advanced Lazer Cut Machine ensures high-precision cutting of filter fabrics and textiles with smooth edges and zero fraying. It enhances accuracy, speed, and consistency in production, reducing wastage and ensuring perfect fit for customized filter products. This state-of-the-art technology helps us deliver products that are durable, reliable,

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

LIQUID FILTER BAGS

Liquid filter bags represent a crucial technology in industrial filtration systems, providing efficient and cost-effective solutions for removing solid particles from liquid streams across diverse industrial applications. These filtration devices operate on fundamental separation principles while offering superior performance characteristics that make them indispensable in modern industrial processes



Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

BASIC STRUCTURE AND COMPONENTS

Liquid filter bags are cylindrical porous filtration elements designed specifically to capture solid particles while allowing liquids to flow through unimpeded. The fundamental construction consists of synthetic fabric materials formed into bag-shaped containers that fit securely within specialized housing systems. These bags typically feature reinforced top rings or collars, which can be manufactured from galvanized steel, stainless steel, or molded plastic materials depending on application requirements

The housing system that contains these filter bags comprises several essential components including the pressure vessel, perforated support basket, bag hold-down mechanism, inlet and outlet ports, and closure systems. Modern bag filter housings are engineered from materials such as stainless steel, carbon steel, or specialized plastics like polypropylene to ensure compatibility with various chemical environments and operating pressures.

Material Selection and Properties

The selection of appropriate filter bag materials represents a critical factor in achieving optimal filtration performance. Polypropylene (PP) stands out as the most commonly utilized material due to its broad chemical compatibility. This material demonstrates excellent resistance to acids and alkalis while maintaining operational stability at temperatures up to 80°C. Polyester (PES) materials offer enhanced mechanical strength and temperature resistance up to 90°C, making them suitable for applications involving mild acids and most organic compounds. For high-precision filtration requirements, nylon materials provide exceptional stability and precision filtration capabilities, though with limited acid and alkali resistance. Specialized high-temperature applications utilize Nomex (aramid) materials, which can withstand temperatures up to 200°C while maintaining filtration integrity.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

TYPES AND CLASSIFICATIONS OF LIQUID FILTER BAGS:

Standard Felt Filter Bags:

Standard felt filter bags represent the most widely used category in industrial filtration applications. These bags are manufactured from synthetic fibers including polypropylene, polyester, and Nomex materials, with fiber combinations optimized to create economical depth filter media. The manufacturing process involves carefully controlled fiber diameter, weight, and thickness parameters to achieve desired filtration characteristics.

Polypropylene and polyester bags typically receive glazed or singed finishes to reduce fiber migration and improve filtration performance. These standard bags offer micron ratings ranging from 1 to 200 microns, providing broad application flexibility. Construction options include both sewn and fully-welded seam designs, with welded construction eliminating potential bypass paths through needle holes.

High-Efficiency Multi-layer Bags

High-efficiency filter bags utilize advanced multi-layer construction techniques to achieve superior filtration performance. These bags combine polypropylene and microfiber polyester composites to create retention efficiencies ranging from 90% to 99.98% across the complete product range. The multi-layer design enables micron ratings from 0.2 to 25 microns, making them suitable for critical filtration applications.

The manufacturing process involves individually welding each layer to ensure maximum mechanical strength while eliminating contamination risks associated with sewn construction. These high-performance bags find particular application in pharmaceutical, automotive, chemical, and food and beverage industries where fine particle removal is critical.

Mesh Filter Bags

Mesh filter bags utilize precision woven materials to provide high-precision filtration with exceptional stability. These bags are manufactured from nylon, polypropylene, polyester, or PTFE materials, offering micron ratings from 1 to 2000 microns. The woven construction provides low pressure drop characteristics while maintaining consistent filtration performance.

Specialty Filter Bags

Specialized filter bag designs address unique application requirements that standard bags cannot meet. Oil absorption filter bags utilize polypropylene materials with enhanced oil-absorbing properties for water treatment and industrial cleaning applications. High-capacity bags feature dual-cylinder construction that increases filtration surface area by 70% while occupying the same housing volume.

Advanced Technologies and Innovations

Ultrasonic Welding Technology:

Modern liquid filter bag manufacturing utilizes ultrasonic welding technology to eliminate seam-related bypass issues. This advanced manufacturing process removes needle holes that can occur during stitching, particularly important for finest micron ratings where bypass prevention is critical. The ultrasonic welding process requires no external materials, ensuring silicone-free construction that prevents contamination issues

Welded filter bags demonstrate improved filtration efficiency compared to stitched alternatives, with hermetic seals between filter housing and bag. The molded seal rings manufactured from polypropylene or polyester are also welded, creating complete system integrity. This technology enables absolute micron ratings with verified performance characteristics.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

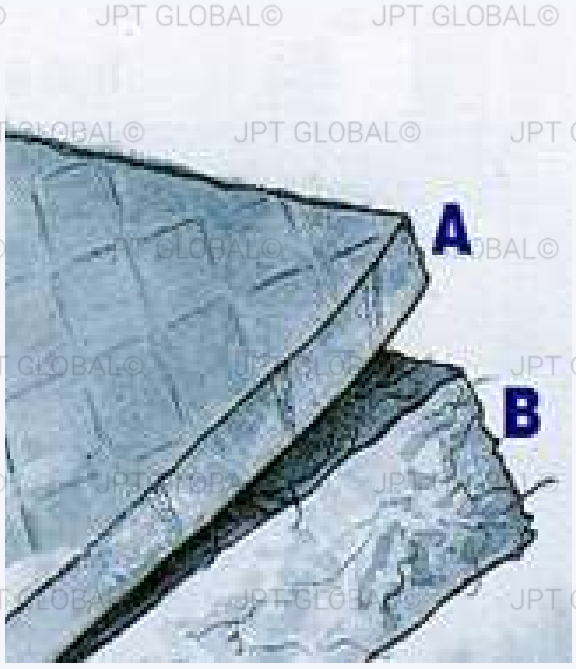
JPT GLOBAL LIQUID BAGS RANGES

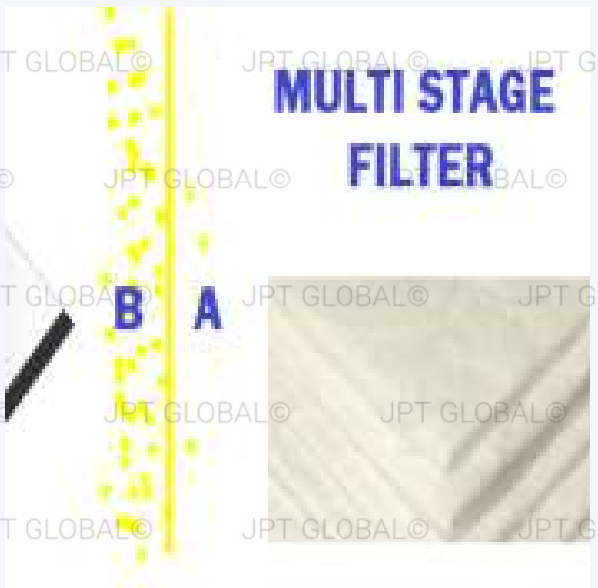
CLEAR FLOW

We use only the best, most consistent polyester and polypropylene needle felt in the industry. our media comes standard with a fibre free surface treatment to prevent fibre contamination downstream.
Industrial Filter with rounded bottom weld configuration to better fit your retainer basket. The result is durability, consistency & performance for industry's most challenging applications.
Ultra strong 100% thermally bonded welding process ensures bypass free, thread free seams and improved filtration efficiencies. Flexible construction allows the filter bag to form to the shape of the retainer basket creating support as differential pressure builds.
Stainless steel snap band retainers in the welded configuration is big improvement with ease of Snap bands configuration which are Ready in stock to fit standard commercial filter housings in all sizes .
All configurations come standard with double integral handles for easy filter bag change out. All welded filter bags are available in polyester and polypropylene felt in micron ratings from 1 to 200.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

DUAL FLOW





Dual flow High efficiency filter bags have been developed for demanding applications that require critical particle size retention and dirt holding capacity. They are constructed from chemically resistant polypropylene micro fibre, which can be used in a wide range of process applications. It is the orientation of these microscopic micro fibres in the structure that delivers enhanced particle retention capabilities. This unique product line is available in all industry standard sizes with efficiencies.

In addition to the obvious benefits of microfiber, the key to providing high efficiency particle retention is in the selection and placement of media layers within the filtration structure. It is this combination of layers in graded density that allows us to achieve filtration efficiencies up to

Inner layers Provide pre-filtration and dirt holding capacity. Outer layers increase in density to Higher efficiency filter bags are configured according to process needs which give substantial depth to the filtration structure. The result is a high voids volume for long service life and increased dirt holding capacity.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

ECO FLOW

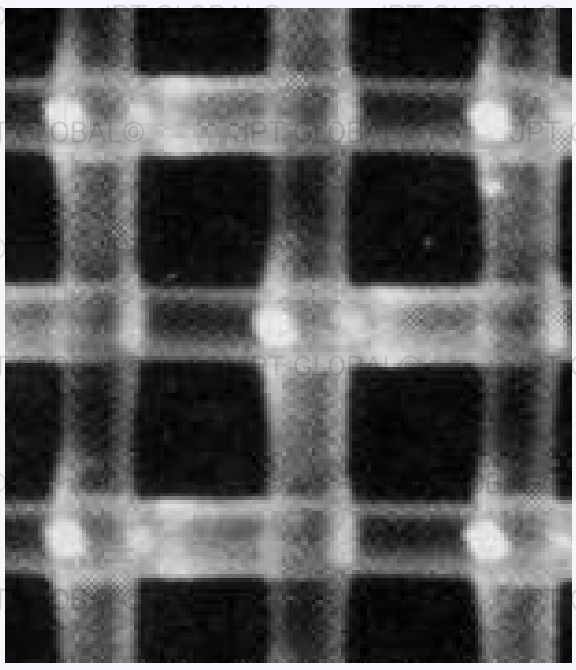
If economy is what you now JPT is the way you should go as we have created Basic products for price conscious clients.

Liquid filter bags offer a very economical and efficient alternative to cartridge filters. Filter bags offer the most cost effective means of particulate removal from liquid streams (1 micron to 2000 micron nominal). One filter bag can replace up to nine cartridge filters offering substantial cost savings. Our bags are easy to use and readily available, usually within a few days. Stock items can be shipped same day.

Nominal Micron ratings are average or general in nature. Their efficiencies can fall any where between 50% and 95% with the norm being around 80% efficiency. That is to say, a one micron nominally rated filter bag will remove approximately 80% of challenge particles one micron or larger in perfect laboratory conditions. The terms absolute (high efficiency) and nominal should be used as a guideline only when selecting the best filter bag or cartridge for an application. Unless stated as high efficiency, micron ratings used in our nomenclature are nominal.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

NET FLOW



Nylon monofilament (NMO) precision woven filtration media offers enhanced removal characteristics and improved strength and durability.

Each filament in the weave has been extruded with a consistent yarn diameter enabling the filtration structure to deliver exact pore openings

As well, the smooth extruded surface allows the structure to be cleaned and re- used in certain applications. NMO filter bags are available in micron ratings from 1 to 1200.

Unique filtration requirements dictate versatility in filter bag design. We offer numerous modifications to our standard filter bag line to meet our customers needs.

Additionally, Industrial Filter manufactures a complete line of specialty and custom filter bags to suit your unique application. With virtually no limit to dimension and configuration.

we will custom tailor a filter bag to suit. Strings, cords, ropes, zippers and other fasteners facilitate versatility limited only by imagination.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

FILTER PRESS CLOTH FOR EDIBLE OIL PROCESS

Filter Press Cloth Technology: Filter press cloth technology represents a critical component in modern industrial solid-liquid separation processes, serving as the fundamental medium that enables efficient dewatering across diverse industrial sectors. Filter press cloths are specialized textile fabrics engineered to trap solid particles while allowing liquids to pass through under pressure, forming the backbone of filtration systems used in mining, chemical processing, wastewater treatment, pharmaceuticals, and numerous other industries. This comprehensive analysis examines the working mechanisms, material properties, performance characteristics, and industry-specific applications of filter press cloth technology, providing essential insights for optimizing filtration processes and equipment selection.

Industrial filter press machine showing the plate arrangement and hydraulic system used for solid-liquid separation.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

WORKING PRINCIPLES AND MECHANISMS

Fundamental Filtration Process: The working principle of filter press cloth is based on surface filtration mechanisms where solid-liquid separation occurs through pressure-driven filtration. When slurry enters the filter press chambers, it is subjected to mechanical pressure that forces liquid through the permeable cloth medium while retaining solid particles on the cloth surface. This process creates a filter cake that progressively builds up, with the cake itself acting as a secondary filtration medium for enhanced solid-liquid separation.

Filter Press Cloth Materials and Properties: Filter press cloths are manufactured from three primary synthetic materials: polypropylene (PP), polyester (PET), and nylon (PA), each offering distinct performance characteristics suited to specific applications. The selection of appropriate material depends on chemical compatibility, temperature requirements, mechanical strength needs, and cost considerations.

Filter Press Cloth Material Comparison

Material	Acid Resist	Alkali Resist	Temp Range °C	Tensile lb	Air Perm	Abrasion %	Cost Class	Service Life
Polypropylene (PP)	Excellent	Excellent	60-100	800-1200	20-60	94-98	Low	6000-10000
Polyester (PET)	Good	Moderate	120-150	1200-1800	15-45	92-96	Medium	8000-12000
Nylon (PA)	Good	Poor	100-120	1500-2500	12-35	90-94	High	10000-15000

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

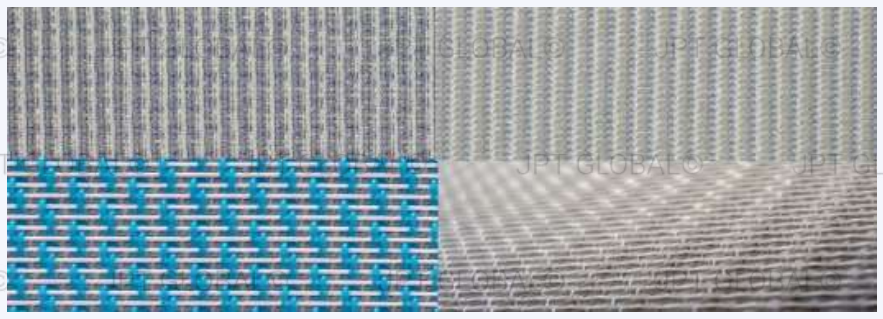
COMPREHENSIVE COMPARISON OF FILTER PRESS CLOTH MATERIALS:

Polypropylene (PP)-Represents the most widely used material due to its excellent chemical resistance to both acids and alkalis, making it ideal for harsh chemical environments. PP cloths operate effectively at temperatures up to 90-100°C and provide superior water permeability for fast filtrate discharge. The material offers moderate tensile strength (800-1200 N/5cm) and achieves filtration efficiencies of 94-98% while maintaining cost-effectiveness.

Polyester (PET)- Excels in high-temperature applications, withstanding temperatures up to 120-150°C, making it suitable for processes requiring thermal stability. PET cloths demonstrate superior tensile strength (1200-1800 N/5cm) and excellent abrasion resistance, though they show reduced performance in strong alkaline conditions. The material achieves filtration efficiencies of 92-96% with service lives extending 8,000-12,000 cycles.

Nylon (PA)- Provides exceptional mechanical properties with the highest tensile strength (1500-2200 N/5cm) and outstanding abrasion resistance, making it ideal for handling materials with high solid particle content. However, nylon shows poor resistance to strong acids and operates at moderate temperatures around 100-120°C. Despite higher costs, nylon cloths offer the longest service life (10,000-15,000 cycles) due to superior durability.

Close-up comparison of different woven filter press cloth materials showing varied weave patterns and thread compositions



Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

EDIBLE OIL FILTRATION PROCESSES:

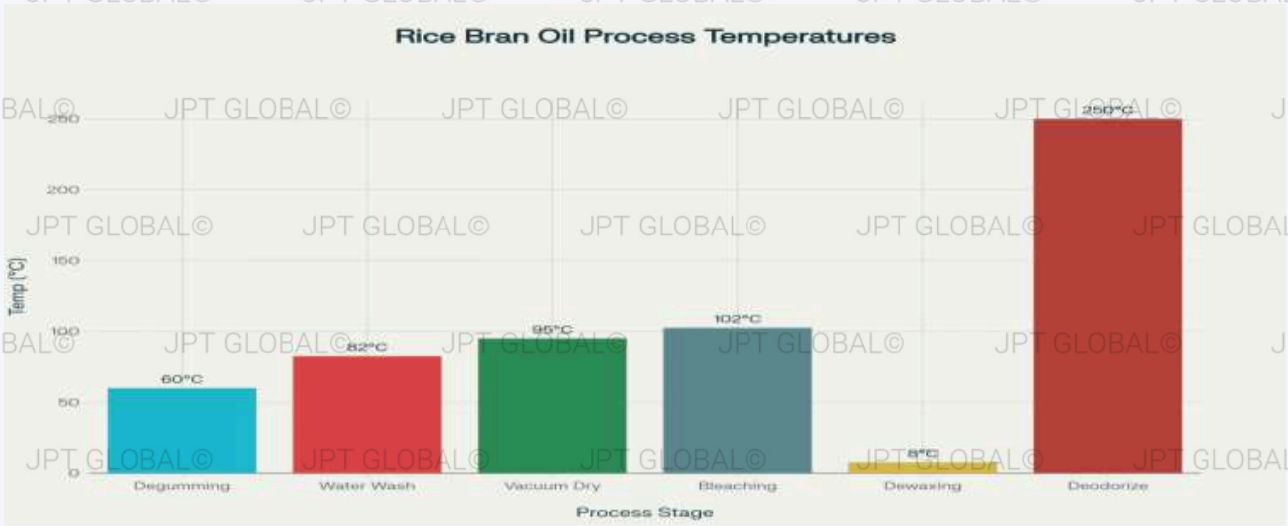
Rice bran oil (RBO) represents one of the most technically challenging edible oils to process due to its complex chemical composition and unique filtration requirements. Extracted from the outer layer of rice grains during milling, rice bran contains 16-23% oil content along with significant quantities of phospholipids, free fatty acids, waxes, and valuable nutraceutical compounds such as γ-oryzanol. The filtration processes are critical for removing impurities while preserving beneficial components, requiring sophisticated equipment and precise operating parameters.

The industrial processing of rice bran oil involves multiple filtration stages, each addressing specific contaminant removal requirements. The crude oil extracted through solvent extraction typically contains moisture (0.3%), impurities (0.15%), waxes (2.5%), high free fatty acids (15%), and phosphatides (1.5% maximum). These impurities necessitate comprehensive filtration treatments to achieve refined oil standards suitable for human consumption.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

DEGUMMING AND PRIMARY FILTRATION PROCESSES

The degumming process represents the first critical filtration stage in rice bran oil refining, specifically targeting phospholipid removal. Modern rice bran oil processing predominantly employs enzymatic degumming using phospholipase A1, which converts phospholipids to lysophospholipids for easier separation. The process operates at 60°C with 2% water addition and 1-1.5 kg of food grade phosphoric acid per ton of oil, requiring 20 minutes mixing time.



Rice Bran Oil Filtration Process Technical Parameters - Comprehensive operating conditions and quality improvements at each stage

TECHNICAL PARAMETERS FOR ENZYMATIC DEGUMMING INCLUDE:

- Operating Temperature: 60°C ± 2°C
- Reaction Time: 20-30 minutes
- Enzyme Dosage: 50-100 ppm phospholipase A1
- pH Control: 4.5-5.5 using phosphoric acid
- Centrifugal Separation: 6000-8000 rpm at 85°C

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

MEMBRANE-BASED DEGUMMING SYSTEMS

Advanced membrane filtration technology offers an alternative approach to traditional degumming processes. Ultrafiltration using polyvinylidene fluoride (PVDF) membranes with 50-kDa molecular weight cutoff demonstrates exceptional performance in rice bran oil degumming. The system operates with hexane miscella at ambient temperature, achieving 95.5% phosphorus retention with average flux rates of 48.1 $L \cdot m^{-2} \cdot h$

MEMBRANE DEGUMMING SPECIFICATIONS INCLUDE:

- Membrane Material: PVDF or polyethersulfone (PES)
- Molecular Weight Cutoff: 20-50 kDa
- Operating Pressure: 2-5 bar
- Temperature Range: 25-40°C
- Flux Rate: 40-55 $L \cdot m^{-2} \cdot h^{-1}$
- Phosphorus Removal: >95%

ADVANCED BLEACHING AND COLOR REMOVAL FILTRATION

Adsorption-Based Bleaching Systems-The bleaching process constitutes the most critical filtration stage for removing color pigments, residual phosphatides, metal contaminants, and oxidation products. The system operates under vacuum conditions (70 mmHg) at temperatures of 100-105°C with specialized adsorbent materials.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

DEWAXING FILTRATION PARAMETERS:

- Crystallization Temperature: 6-9°C
- Maturation Time: 6-16 hours
- Filtration Method: Horizontal pressure leaf filters
- Precoat System: Diatomaceous earth
- Final Wax Content: <50 ppm
- Oil Loss: <2% in wax cake

COMPREHENSIVE FILTER PRESS SPECIFICATIONS INCLUDE:

- Filtration Area: 55 m^2
- Operating Pressure: 10 bar
- Capacity: 50,000 L/day
- Power Requirement: 10 HP
- Weight: 10,000 kg
- Applications: High-volume processing

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

JPT GLOBAL PROVIDES FILTER PRESS CLOTH

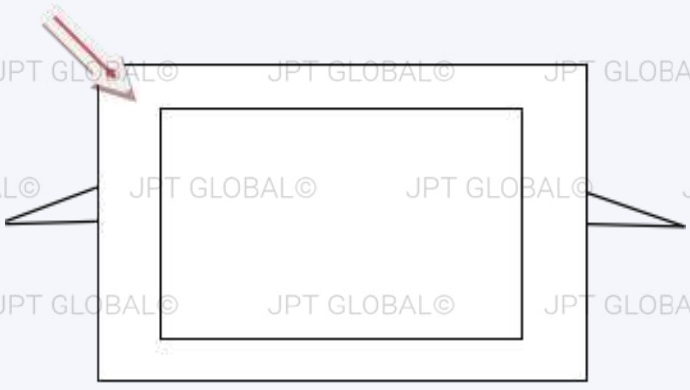
Filter Press Butterfly :

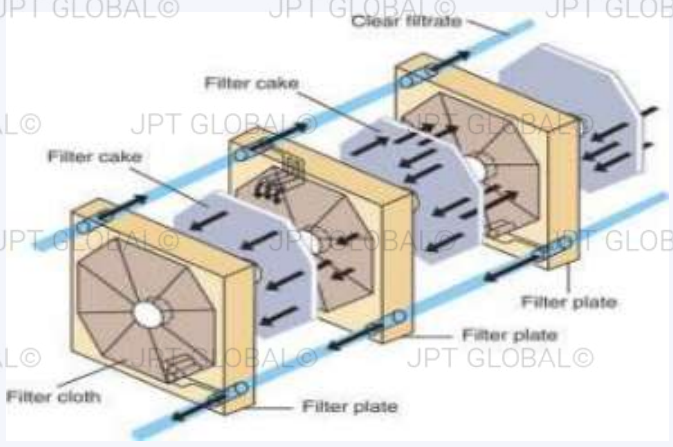
Filter press Butterfly is equipment which is extensively used in the following industries:

Dewaxing of Rice Bran Oil	Ceramic	Mustard Oil Expellers
ETP/STP	Fertilizer & Pesticides	Dyes & Pigment
Food Products	Specialty Chemical	Gaur Gum
		Paper Processing.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

WORKING OF FILTER PRESS BUTTERFLY:





1. Frame and Plate Filter: Consists of Plates and Frames assembled alternately with a filter cloth over each side of the plate. The Plates have channels cut in them so that clear filtrate liquid can drain down along each plate. The filtrate flows through the filter cloth and the solids build up as a cake on the frame side of the cloth. Frame contains an open space inside wherein the slurry reservoir is maintained for filtration and an inlet to receive the slurry. Slurry enters the frame from feed channel. Filtrate drains and escapes from outlet in the plate leaving solid to form a cake.The filtration proceeds until the frames are completely filled with solids.

JPT GLOBAL ADVANTAGES:

- Strength and uniformity of the fabric is assured due to use of high strength yarns specifically used for product application.
- Flawless manufacturing and stitching with industrial grade machines .
- Robust quality control and sampling in every Dispatch lot for assurance on quality and size.
- Wide range of micron rating and customizable products as per specific needs of customer Assured service network with quality assurance and team management.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

ETP / STP, SPECIALTY CHEMICALS, DYES AND PIGMENTS:

Advantages Of Using JPT Cloth:

1) JPT has specially designed filter media taking care of needs like high temperature, high pH value (ranging from 1 to 14 pH) and extraordinary durability.

2) JPT expertise in providing zero leakage barrel especially innovated and designed for quality conscious customers. This ensures both uniformity of end products and reliability in general practice.

3) JPT fabric can withstand high corrosive nature of effluent discharge from ETPS and STPS and provide extraordinary results during final filtration with filter press and liquid bags (in various sizes namely 4” x 10”, 4” x 20”, 7” x 16”, 7” x 32”) available in wide array of micron ratings and fabric. JPT make a broad spectrum claim in achieving successfully high flow rate with excellent particle retention.

4) JPT also specializes in providing centrifuge bags specifically designed and designed to suit industry needs.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Edible Oil Like..Rice Bran Oil, Gaur Gum, Mustard Oil:

1) JPT has been a name to reckon with in the supply food grade filtration media being manufactured under most stringent norms which are as per guidelines of Food Cooperation of India.

2) JPT manufactures all products in bacteria free AHU controlled environment and with high hygiene standards as designated by Food Safety Deptt. of India.

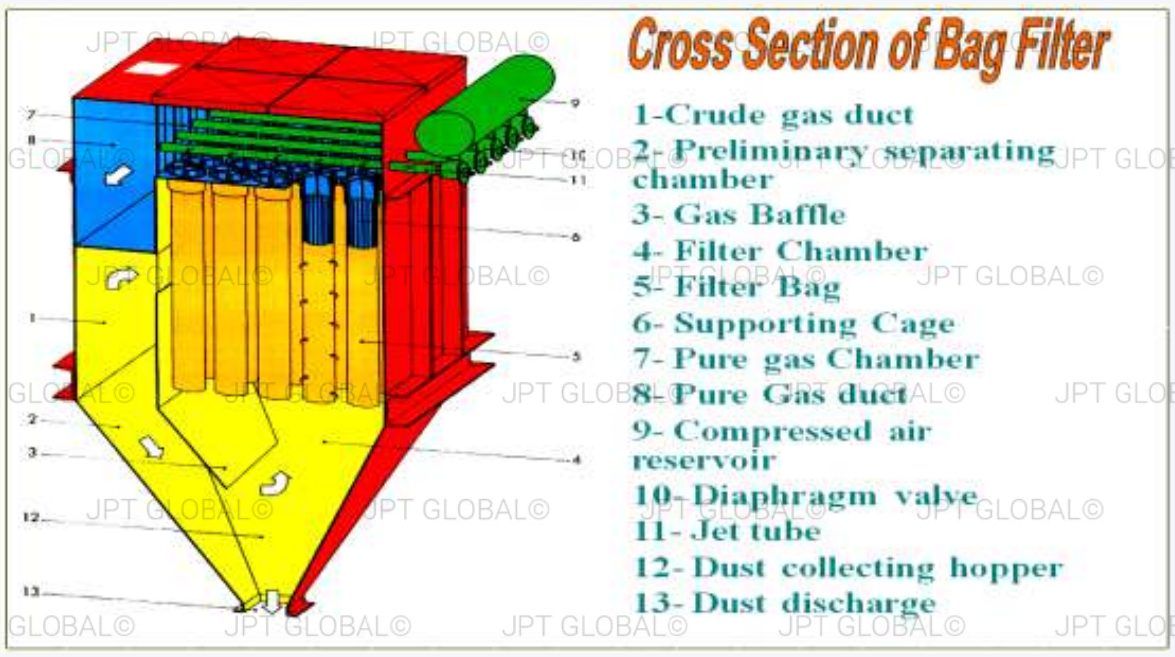
3) All our JPT products are being manufactured on automatic cutting and fabrication equipment with minimal human interaction. We are pioneers in providing patented food grade coatings which are non – stick and easy to clean and aid in dislodging very sticky slurries being generated in rice bran oil / mustard oil / gaur gums. Further, this non- stick property allows JPT media to achieve high production output from the same equipment which in general practice loose their efficiency due to formation of cake on the surface of media

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

PLEATED DUST COLLECTOR BAGS

These filter bags are available in both woven and non-woven materials. They allow good airThe modern industrial landscape demands highly efficient, cost-effective dust collection solutions that can meet increasingly stringent environmental regulations while maintaining operational productivity. Pleated dust collector bags represent a revolutionary advancement in filtration technology, offering superior performance compared to conventional filter bags through innovative design principles and advanced materials. These sophisticated filtration systems utilize pleated media configurations to dramatically increase surface area while optimizing airflow dynamics, resulting in enhanced dust capture efficiency, extended operational life, and significant cost savings across diverse industrial applications.
flow, are strong and durable, and effectively trap dust particles. Material options include woven polyester, woven cotton, nonwoven polyester, and lint-free woven polyester.

Technical Working Principles and Construction



The filtration process begins when contaminated air enters the bag house system and encounters the pleated filter elements. Large particles immediately separate through gravitational settling in the expanded chamber beneath the shorter pleated bags, while fine particulates are captured on the media surface through multiple collection mechanisms. As filtration continues, a dust cake forms on the filter surface, actually enhancing filtration efficiency by creating an additional barrier layer with microscopic pores that trap even smaller particles.

Advanced Material Engineering

Spun-bonded polyester media forms the foundation of most pleated dust collector bags, engineered to provide exceptional chemical compatibility, temperature resistance, and mechanical strength. This 100% polypropylene or polyester construction delivers superior performance characteristics including hydrophobic properties, wash ability, and the ability to trap particles as small as 0.3 microns. The multi-layered pleated structure incorporates specialized coatings such as PTFE membranes, anti-static treatments, water repellent finishes, and fire retardant properties to meet specific application requirements.

Filtration Efficiency Comparison

Pleated dust collector bags consistently outperform conventional filter bags across all particle size ranges, demonstrating particularly superior efficiency for fine particulates. Performance testing reveals that pleated bags achieve 92% efficiency for 0.3-1.0 µm particles compared to 85% for conventional bags, with efficiency improvements continuing across larger particle sizes. For particles larger than 10 µm, pleated bags approach 99.5% efficiency while maintaining lower pressure drop characteristics.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Cement and Construction Materials Industry

Cement manufacturing represents one of the most demanding applications for pleated dust collector bags, involving extremely high dust loads, abrasive particles, and elevated operating temperatures up to 150°C. The industry requires 99.5% filtration efficiency to meet environmental regulations while handling cement dust, limestone particles, and silica-containing materials. Pleated bags with specialized coatings and reinforced construction provide superior performance in these harsh conditions, offering extended service life and consistent efficiency despite the challenging operating environment.

Pharmaceutical and Food Processing Industries

Pharmaceutical manufacturing demands the highest filtration standards with 99.9% efficiency requirements and strict contamination control protocols. Operating temperatures are typically lower at 80°C, but the focus on product purity and regulatory compliance necessitates specialized filter media with FDA-compliant materials and validated cleaning procedures. PTFE membrane laminated pleated bags provide the ultra-high efficiency and chemical compatibility required for pharmaceutical applications.

Food processing facilities require 99.5% filtration efficiency while maintaining food-grade material standards and preventing cross-contamination. The ability to handle flour, sugar dust, and other organic particles at moderate temperatures around 70°C requires specialized media that prevents dust caking and maintains consistent airflow. Washable pleated bags with hydrophobic coatings offer advantages in these applications where periodic sanitization may be required.

Chemical Processing and Manufacturing

Chemical industry applications involve diverse dust types from fine powders to potentially reactive substances, requiring 99.7% filtration efficiency at operating temperatures up to 120°C. The wide range of chemical compatibility requirements necessitates careful selection of filter media materials, with PTFE, PPS, and specialized coated polyester options available to handle different chemical environments.

Woodworking and Manufacturing Industries

Woodworking facilities generate wood particles and sawdust at relatively low temperatures around 60°C but require 98.5% filtration efficiency to meet air quality standards. The combustible nature of wood dust necessitates fire-retardant filter media and specialized safety considerations in system design. Pleated bags with enhanced dust holding capacity prove particularly effective for handling the high-volume, low-density wood particles common in these applications.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

JPT GLOBAL PROVIDE DUST COLLECTOR BAGS

Dust Collection System:

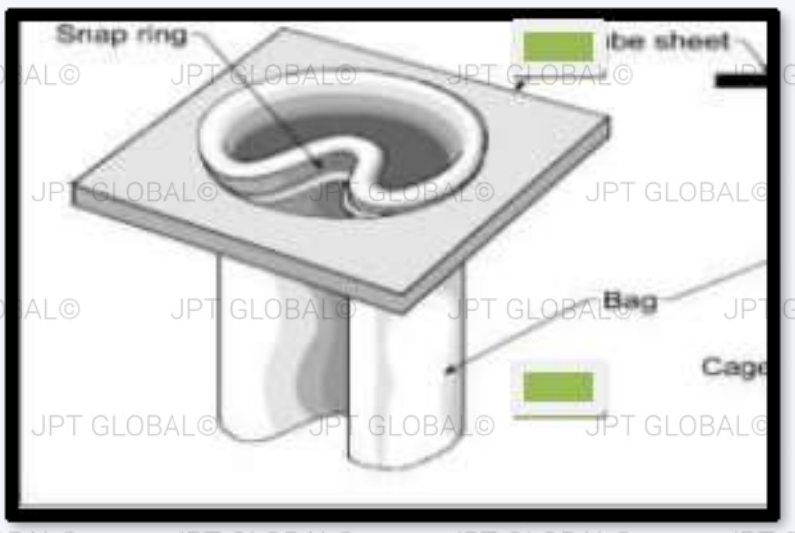
A dust collection is a system used to enhance the quality of air released from industrial and commercial processes by collecting dust and other impurities from air or gas.
Dust Collectors are mainly used either to recover valuable granular solid or powder from process generated dust or to remove granular solid pollutants from exhaust gases prior to venting to the atmosphere.

Most types of dust collectors have ducting that is connected to the inlet of a collector, a means for filtering the dirty air inside of the unit, a blower system for creating airflow through the ducting system and internal body of the dust collector, a cleaning system for the filters and a discharge mechanism for capturing the dust particulate for either waste or reclaim purposes.

Dirty gas flow normally enters the bag house and passes through the bag from the inside, and the dust collects on the inside of the bags. Reverse-air bag houses are compartmentalized to allow continuous operation.

A Dust Collector is a system used to enhance the quality of air released from industrial and commercial processes by collecting dust and other impurities from air or gas. Designed to handle high-volume dust loads, a dust collector system consists of a blower, dust filter, a filter-cleaning system, and a dust receptacle or dust removal system. It is distinguished from air cleaners which use disposable filters to remove dust.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in



DUST COLLECTOR BAGS ARE AVAILABLE IN WOVEN/ NON WOVEN/ POLYSTER/ POLY PROPLENE/ NOMEX/ RYTON

Variants of Dust Collector Bags:

REVERSE PULSE JET DUST FILTER BAGS

A Shaker Bag with loop top and snap band bottom
B Shaker bag with grommet top and snap band bottom
C Reverse air bag with cord cuff top and snap band bottom
D Shaker bag with tail and snap band bottom

In reverse-pulse-jet Bag Houses, individual bags are supported by a metal cage (filter cage), which is fastened onto a cell plate at the top of the Bag Houses. Dirty gas enters from the bottom of the bag Houses and flows from outside to inside the bags. The metal cage prevents collapse of the bag.
Bags are cleaned by a short burst of compressed air injected through a common manifold over a row of bags. The compressed air is accelerated by a ventury nozzle mounted at the Reverse-Jet Bag Houses top of the bag. Since the duration of the compressed-air burst is short (0.1s), it acts as a rapidly moving air bubble, traveling through the entire length of the bag and causing the bag surfaces to flex. This flexing of the bags breaks the dust cake, and the dislodged dust falls into a storage hopper below.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

ENVELOPE FILTER BAGS

A Flat bottom with gasket top
B Custom fabricated bags to meet any desired specifications

HIGH TEMPRATURE DUST/GAS FILTER BAGS

If the collector gas stream is (150C – 260C) degrees our engineers can recommend the most appropriate high temperature media that is compatible with the gas stream. We fabricate filter bags that function effectively at high temperature (150C – 260C).Available media with us are Nomex, Ryton, Teflon and Fiber Glass. JPT can dexterously fabricate bags to suit high temperature using any of the above media

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

· FIBREGLASS DUST FILTER BAGS

The glass fiber filter bags are made of glass fiber (Woven Fabric) which is especially treated to produce products undergoing heat temperature at 260 oC or more for a long time. This material has ideal heat resistance, good chemical resistance, anti-water, anti-moistures and excellent dust peeling properties. The filtering efficiency is more than 99.5%. The glass fiber filter bag has been widely used in cement, carbon black, electric power and metallurgical industries for removing dust in the conditions of high temperature.

JPT GLOBAL has the experience, knowledge & Hi – Tech fabrication equipment to produce high quality and high performance fiberglass filter bag which makes it a distinguished product from its competitors. It produces straight bags sewn under tension without any banana effect & minimum manual handling product quality & add to its life.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

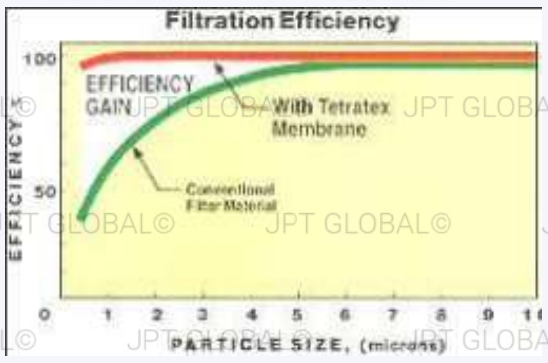
PTFE(TEFLON) MEMBRANE LAMINATED FILTER BAGS

We offer PTFE membrane laminated filter bags that negate the disadvantages associated with conventional "Depth Filtration" media. This media helps to build up dust cake and to capture even more & finer particles of dust. The filters are cleaned continuously to remove some of the dust cake & then begin the process all over again.

PTFE membrane laminated on filtration side of filter media permits air to pass through the filter media while trapping all particles on surface. Membrane laminated filter bags are termed as BACT (Best Available Control Technology).

The phenomenon is termed as surface filtration and has following advantages:

- Consistently lower pressure drop throughout the life of the filter bag.
- Lowers outlet emissions.
- Can take process upsets more easily & thus reduce downtime.
- Generally the life is double than a conventional filter bag if all other things in the bag house remain same.
- Lower operating & maintenance cost.
- Great Product Recovery.



Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

ADVANTAGES OF JPT GLOBAL FILTER BAGS

Various coatings and finishes can be applied on demand to either side of the dust collector bag to enhance cleaning and efficiencies, as well as prolonging service life. We offer options of ground wire, anti-collapse rings, and other options. We can custom fabricate various types of attachments to work with your specific shaker mechanism, whether it's a loop, eyelet, grommet, or other device.

Our Dust filter bags are being used by OEM & by many actual users for application in industries like Food, Cement, Chemical, Pharmaceuticals and other industries of having dusty environment.

FILTER MEDIA SELECTION

General Characteristics							
Fibre (Generic Term)	**Fibre (Trade Name)**	**Colour**	**Density g/cm3**	**Tenacity CN/TEX**	**Continuous operating Temp*C**	**Max Shart Duration Temp*C**	**Moisture Regain %**
Polyester	Terylene	White	1.38	60	150	170	0.4
Polypropylene	Meraklon Danaklon	White	0.91	50	90	100	0.1
Polyamide	Nylon	White	1.14	60	110	120	4
Polyaramid	Nomex Conex	Cream	1.38	33	200	250	4
Acrylic (Homopolymer)	Dolanit Ricem	Cream	1.15	35	130	150	1
Acrylic (Co-polymer)	Orlon	Cream	1.15	20	120	130	1
Polyphenylene Sulphide	Ryton Procon	Light Brown	1.37	35	190	230	0.6
PTFE	Teflon Toyoflon Profilen	Dark Brown White	2.3	18	250	260	0
Co-Polymide	P84	Gold	1.41	25	240	260	3

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

General Resistance							
Fibre (Generic Term)	**Strong Acids**	**Weak Acids**	**Strong Alkalis**	**Weak Alkalis**	**Solvents**	**Oxidising Agents**	**Hydrolysis**
Polyester	Good	Good	Poor	Fair	Good	Very Good	Poor
Polypropylene	Very Good	Very Good	Very Good	very Good	Very Good	Good	Very Good
Polyamide	Poor	Good	Good	Good	Good	Good	Fair
Polyaramid	Fair	Good	Good	Good	Good	Good	Fair
Acrylic (Homopolymer)	Good	Good	Good	Good	Good	Good	Good
Acrylic (Co-polymer)	Fair	Fair	Fair	Fair	Fair	Fair	Good
Polyphenylene Sulphide	Good	Good	Fair	Fair	Good	Poor	Very Good
PTFE	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good	Very Good
Co-Polymide	Good	Good	Poor	Fair	Good	Fair	Good

HEPA FILTERS

With an aim to stand tall on the expectations of our clients, we are offering quality assured Industrial Air Filters. These products are manufactured using high quality raw materials, which is obtained from the most authentic vendor of the market. In order to assure high quality final output, team of skilled professionals are hired to supervise and guide our working staff. Moreover, products we offer are fabricated at our well segregated production unit to avoid errors in the final output results.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Fresh Air Filter

The Fresh Air Filter media is constructed with specially compressed synthetic non-woven media. This media is supported by Gl/Aluminum expanded mesh and crimped to form deep folds. These folds are separated by aluminum/GI spacer.

Features:

- Efficiency : 90% down to 10 microns
- Pressure drop : 2.5 mm of weight at rated flow
- Frame : Galvanized MS/Aluminium/
- Finish : Painted/Powder Coated
- Filter Media Synthetic Non-woven filter media supported with HDPE mesh and Gl/aluminium
- Filter media : Expanded mesh
- Media : Pleated
- Type : Box type / Flange type

Model No.	Rated Flow Capacity (M5/Hr)	Dust Holding Capacity at FPD Gms	Nominal Dimension LxWxH (mm)
Flange-3100	2000	90	610x550x25
Flange - 3200	3000	140	610x550x50
Box-3150	2300	120	610x610x25
Box - 3250	3400	150	610x610x50

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Micro Vee Fine Filters

We are engaged in offering a wide range of filters. Among these we offer Micro Vee Fine Filters. These have been specially designed to meet the requirement of clean air in general ventilation and air conditioning system in Hospitals, Synthetic fiber industries and compressor applications.

Construction:
The heart of the filters is a reinforced washable synthetic non-woven filter media/fire retardant glass fiber media pleated in a format along with the support of wire/HDPE netting. The mediums are carefully selected to offer the best possible performance to suit the specific need. In order to obtain uniformity of dust loading the filter pleats are kept apart by means of aluminum separators.

Media:
The media is a special synthetic non-woven bounded fiber designed to give high efficiency and long service life. It is pressed in the form of a fabric and given special treatment which prevents fungus growth. An alternative media in superior felt is also available, which gives long run trouble free services, and economical in usage.

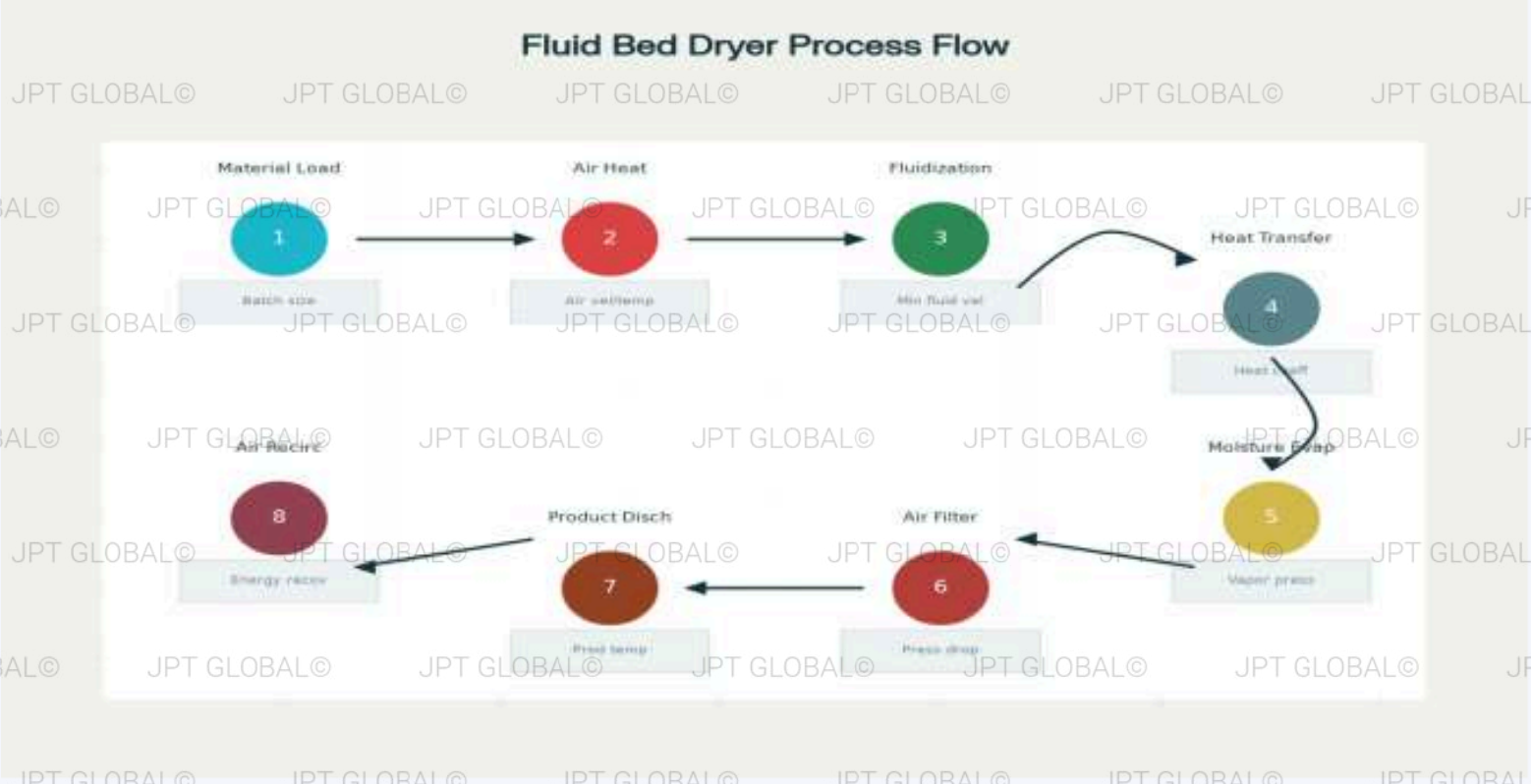
Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

FLUID BED DRYERS (FBD)

Fluidization Mechanism

The core operating principle of fluid bed dryers is based on fluidization, a process where solid particles are transformed from a static bed into a dynamic, fluid-like state through the upward flow of gas or air. When air velocity exceeds the minimum fluidization velocity, particles become suspended and behave like a boiling liquid, creating optimal conditions for heat and mass transfer. This fluidized state ensures each particle is surrounded by the drying medium, enabling uniform moisture removal and preventing the formation of hot spots or under-dried areas.

The fluidization process occurs in distinct stages: smooth fluidization, bubbling fluidization, turbulent fluidization, and fast fluidization. At the optimal fluidization velocity, particles maintain suspension while allowing maximum surface contact with heated air, resulting in efficient moisture evaporation. The direct contact between hot air and individual particles creates superior heat transfer rates compared to conventional drying methods, reducing drying times by 50-90%.



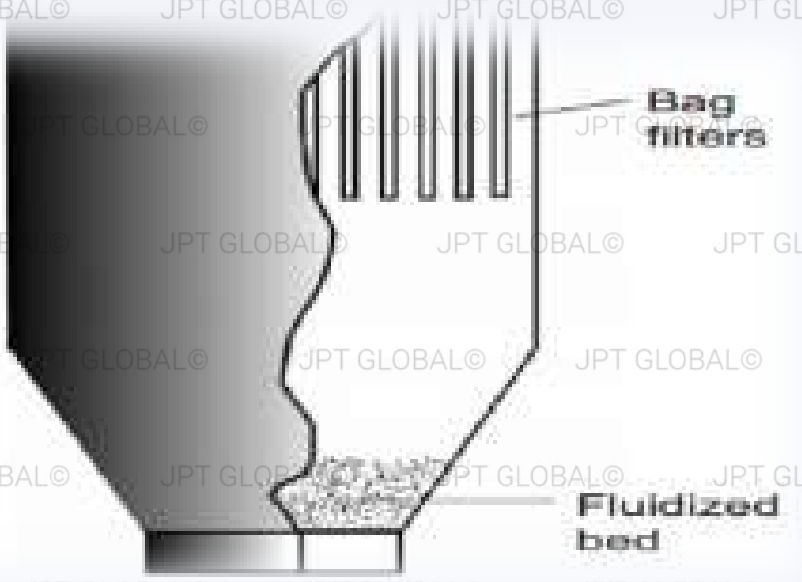
Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

JPT GLOBAL PROVIDES FBD BAGS

FBD is most pertinent when the input is in granular or crystal form and the end or final product is in powder form. Fluidized Bed Dryer (Also Called Fluid bed Dryer) is a kind of equipment used to reduce the moisture content of powder and granules introduced as input. It is used for acquiring desired moisture content for desired compression of tablets.

In fluidization process, hot air is introduced at high pressure through a bed of most solid particulate. The wet solids are lifted from the bottom and suspended in a stream of air because air is blown in upward direction with greater velocity than the settling rate of particles and less than the terminal velocity for pneumatic conveying and equal to the minimum velocity of fluidization. Heat transfer is accomplished by direct contact between the wet solid and hot gases. The vaporized liquid is carried away by the drying gases and the resultant mixture of solids and gas (also called rightly solids) are called fluidized.

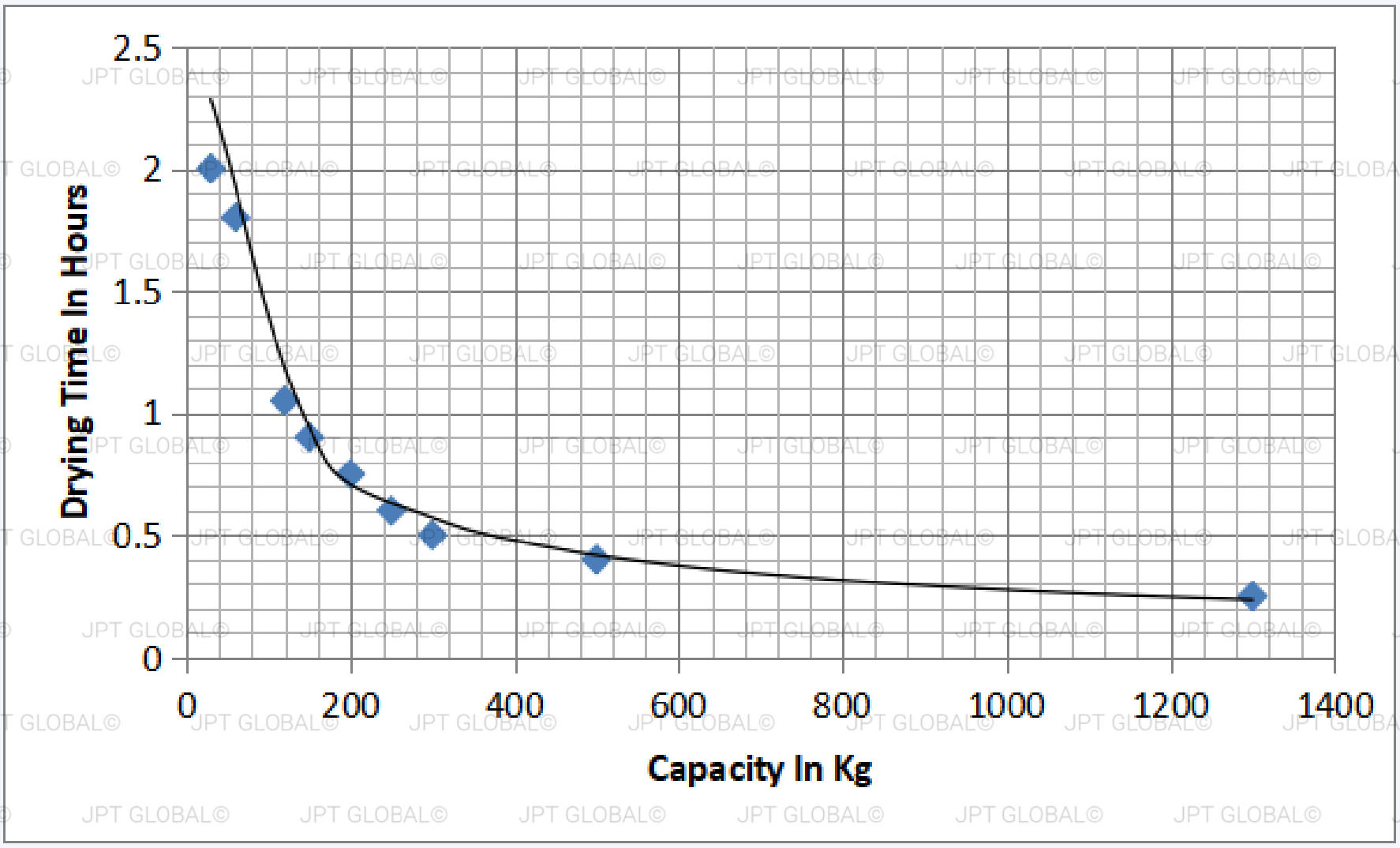
FBD contains a stainless steel chamber having a removable perforated bottom known as the bowl. Material to be dried is placed in this bowl. Air is introduced from the bottom of the bowl and heated at required temperature by the heaters. This airflow is generated by the fans fitted at the top of the equipment for circulating hot air. The temperature of hot air and exit are monitored. Bag filters are placed above the drying bowl for recovery of fines.



ADVANTAGES OF FBD:

1. It has a high drying rate and the material is dried in a very short time.
2. Material remains free flowing and uniform.
3. Long Life.
4. Synthetic Media aids in avoiding bacteria and virus growth.
5. High Tensile strength cloth with light weight for easy handling.
6. Special finish for easy cake release.
7. Lazer Cut and AHU controlled bacteria free environment.
8. Antistatic and elitropic for uniform particle distribution.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in



SPARKLER FILTER PAD

Filter paper works on the principle of mechanical filtration through its porous structure. It separates solid particles from liquids or gases based on:

1. **Filtering Agglomerates:** Larger particles accumulate on the filter surface, forming a barrier that traps smaller particles between them.

2. **Adsorption:** Some particles smaller than pore size adhere to the filter fibers due to electrostatic attraction.

1. **Filtering Agglomerates:** Larger particles accumulate on the filter surface, forming a barrier that traps smaller particles between them.

2. **Adsorption:** Some particles smaller than pore size adhere to the filter fibers due to electrostatic attraction.

3. **Fall-into Mechanism:** Particles fall and get trapped on the fibers due to fluid flow forces and adsorption. The filter paper has a multi-layered and directional structure where pore size reduces along thickness to enhance filtration efficiency.

Filtration occurs either by surface filtration (particles caught on surface) or volume filtration (particles caught within the filter media).

Types and Specifications

1. **Grades:** Qualitative (general filtration) and quantitative (precise, ashless for gravimetric analysis).

2. **Pore Size:** Coarse to very fine pores measured in micrometers, influencing retention and flow rate.

3. **Material:** Made mostly from cellulose (cotton, wood pulp), sometimes fiberglass, quartz, or PTFE for specialized high-temperature or chemical resistance.

4. **Shapes and Sizes:** Circular (9 cm to 18 cm diameter), square sheets (various sizes).

5. **Speed:** Fast, medium, slow filtration categorized often by colored belts on packaging.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Industry-wise Applications

1. Laboratory and Research
-Separation of solids from liquids in chemical analysis.
-Microbiological testing by filtering microbes.
-Chromatography and environmental monitoring

2. Food and Beverage
-Clarifies juices, syrups, oils to ensure product purity and quality.
-Coffee and tea filtration.

3. Pharmaceutical Industry
-Purification and separation in drug development and research.

4. Wastewater Treatment
-Used as pre-filters to remove contaminants before advanced treatment for recycling.

5. Automotive and Industrial Fluids
-Filter oils and fluids for vehicle and manufacturing equipment maintenance.

6. Environmental and Air Quality Testing
-Quartz fiber papers used to collect and analyze airborne pollutants due to chemical resistance.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

JPT GLOBAL PROVIDE SPARKLER FILTER

In sparkler filter press, a number of horizontally organized disc type filter plates are arranged with perforated sustaining screens, filter media and interlocking cups. The impure liquid to be separated is fed to the sparkler shell by pump. As liquid stress raises, the filter media holds back the impurities and enables the crystal clear filtrate to move. Filtration by filter pads is carried on until its speed becomes very slower due to enhanced cake resistance.

The unfiltered liquid is fed into the filter below positive pressure where liquid travels in downward direction. As the liquid pressure increases, the filter media grasps the foreign particles and allows only clear filtrate to exceed through the central channel formed by interlocking pressure cups to the outlet. Available in woven / Non woven Polyester, Woven/ / Non Woven Polypropylene and Woven cotton, it is widely used in Chemical, Pesticides, Dairy, Pharma, Honey and Beverage industry.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

We are an acclaimed manufacturer of sparkler filter pads. We supply comprehensive range of pads from PP/ NW & W to Polyester / NW & W. Variety in cotton is also available. Micron size and GSM is customized according to customers' requirements. We always strive to achieve quality that allows contaminated liquid to be filtered and release crystal clear filtrate. The complete range is produced using superlative quality raw material. These pads are cut through lazer machine without any human intervention to yield uncompromising precision. Lastly, the product undergoes strict quality check to ensure delivery free of defects.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

WHY TO PREFER JPT GLOBAL SPARKLER FILTER PADS ?

1. Cut through Lazer Machine yielding precision and hygiene because of least human intervention.

Hand Cut Sparklers bear inexactness which is bound to affect the quality of final product. We at JPT GLOBAL religiously follow the procedure of cutting each and every sparkler pad through Lazer.

2. When cut through lazer machine, it imparts yellow tint to the product which is in fact a lazer heat seal and protects any kind of fiber being permeating through the final product. The fiber being an alien element might contaminate the product and manually cut sparklers have a high chance of fiber being transmitted into and manually cut sparklers have a high chance of fiber being transmitted into the liquid.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

The loose ends of manually cut sparkler pads float on the liquid making it unfit for ingestion.

3. One more feature of JPT Sparklers is that we have the ability, expertise and resources to provide pads with both side singed. Singing is a process that burns off any protruding fiber because any loose fiber might again contaminate the final product by interfering with its quality. Moreover, singed fabric soil less easily and control pilling.

Singed Fabric

Without Singe

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

TYPES OF SPARKLER FILTERS

1) Woven/ Non Woven Polyester
2) Woven/ Non Woven Polypropylene
3) Non Woven Polyester (Both Side Glazed)
4) Woven Polypropylene (Silk)
5) Cellulose

CENTRIFUGE BAG

A centrifuge bag (or centrifuge filter bag) is a precision-engineered textile liner used as the filtering element inside the rotating basket or drum of an industrial centrifuge, providing effective solid-liquid separation. These specialized bags are used extensively in industries such as pharmaceuticals, chemicals, food and beverage, mining, and wastewater treatment for processes requiring high product clarity and efficient solids recovery.

Construction and Materials

1. Typically made from high-performance synthetic fibres like polyester, polypropylene, nylon, or PTFE.
2. Available as woven or nonwoven types, with monofilament (for strength and durability) or multifilament (for fine filtration) constructions.
3. Can be stitched, welded, or fabricated depending on process demands; the seam design prevents leaks and contributes to mechanical strength.
4. Micron ratings generally range from 0.1 micron up to 100+ microns, customizable for process needs.
5. Construction may include features such as antistatic, water-repellent, and anti-adhesive finishes for ease of cake release and process compliance.
6. Shape and design (top lifting, basket type, bottom discharge) can be customized for specific centrifuge models.

Working Principle

1. The suspension (slurry) enters the centrifuge drum or basket fitted with the filter bag.
2. Centrifugal force pushes the liquid phase through the fine pores of the bag, while solid particles are retained, forming a filter cake inside the bag.
3. After the spin cycle, the solids collected can be easily removed by lifting out or inverting the bag—some systems have top-lifting features for automatic or manual discharge.
4. The bag is then cleaned (or replaced) and reused for the next cycle, maintaining high filtration efficiency and throughput

Key Specifications

Parameter	Typical Range/Description
Material	Polyester, Polypropylene, Nylon, PTFE, Cotton
Micron Rating	0.1–100+ micron
Operating Temperature	60–130°C (net material dependent)
Flow Rate	6–40 m^3/hr (design dependent)
Joint Type	Sewn, welded, seamless
Available Features	Antistatic, water repellent, anti-adhesive
Length/Diameter	Customizable for specific basket sizes
Collar/Top Option	Polypropylene/SS ring, disc top, cone bottom
Applications	API separation, chemical, food, mining, WWTP

Maintenance and Cleaning

1. Easy to install, remove, and clean due to their robust construction.
2. Regular cleaning involves removing the bag, rinsing out solids, and using mild detergents or water sprays; features like anti-adhesive finish make cake release easier.
3. Timely inspection for wear, seam integrity, or blockage is crucial for operational safety and efficient performance.
4. Replacement intervals depend on material selection, chemical exposure, and mechanical wear from solids.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Benefits

1. High filtration efficiency and product purity.
2. Durability, cost savings through long bag life, and reduced machine wear.
3. Quick changeover and easy maintenance.
4. Regulatory compliance and process safety in critical industries

centrifuge bags are essential for efficient, repeatable, and compliant solid-liquid separation in a wide spectrum of industrial processes. The right choice of material, pore size, and construction ensures both process efficiency and product quality.

JPT GLOBAL PROVIDE CENTRIFUGE BAGS:

Centrifuge is a media to separate solids from liquids. Centrifugation separates the components of heterogeneous mixtures like liquids in liquids, solids in solids and gases in liquids. Centrifugal force generates from spinning that moves dense components to the outside of the container. JPT specializes in providing Pharma and Food Grade Product with antistatic properties to many USFDA approved plants.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

DAIRY IS LIFELINE TO ANY NATION

Milk Powder and Dairy Whiteners:

Spray Drying is a method which works on the principle of transformation of a fluid material into dried particles taking the support of a gaseous hot drying medium. It is a powerful technological process since it brings feasibility to the production of free flowing particles with well-defined particle size.
Spray Dryer is designed specifically for dairy and food products which are difficult to spray-dry due to high contents of carbohydrates, fatty substances, or proteins.

Three Phases of Spray Drying Processes:

Stage 1: Atomization It refers to separating something into fine particles. It the process of breaking up bulk liquids into drop lets. At this stage, the liquid feed stock turns into small liquid droplets. Drying of the powder is commonly accomplished using air that has been heated with natural gas.

Stage 2: Grinding all powder uniformly in big chukki grinder just like in flour mills

Stage 3: Separation of powder with unwanted and non uniforms particles from vibro shifters stainless steel 316l screens and then off to pacing line.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

APPLICATION: Stage I - Atomization

PP Collar Bag is energetically used in atomization stage. The most common size being 7” x 32” available in 5, 10, 50,100 microns. This food grade material is used for closed loop filtration needs to avoid any foreign contamination. Further, this closed loop system provide extra ordinary flow rates which are ranging from 5000 M3 / hour to 25000 M3 / hour as per needs of production department. These bags are highly reliable with extra ordinary pressure bearing capacity which is developed in filtration and guarantee quality products at all times.

APPLICATION: Stage II & III – Grinding And Vibro Shifting

JPT also delivers High Quality SS Housing and Pipeline Strainer as part of complete Turnkey solution for our esteemed customers. The product is being offered by dedicated Research and Development Team of sister concern Altair Corporation. All products are Hydro Tested for guaranteed vessel safety with zero leakage assurance at all times. All Wetted Parts are made with SS 316 to meet Food Industry need with full technical support and service.

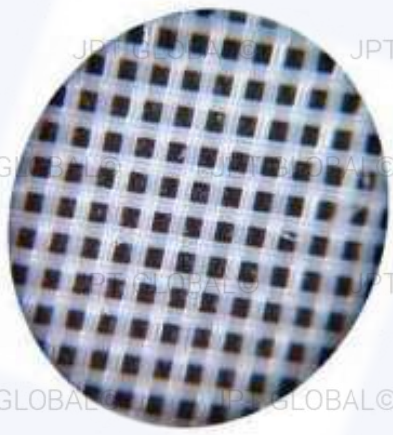
Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

COMPLETE HYGIENE PACKAGE

Magnetic Traps /AHU Pre and Fine Filters are also offered by sister concern JPT GLOBAL which makes it a complete package for Dairy Industry to control any type of contamination and offer unadulterated product to the end consumers.

INVITING PRODUCT RANGE FOR COOPERATIVE FOR DOMESTIC CONSUMPTION

In India most of milk collection centers are placed in interiors of village to help small milk producer to earn their living. In such areas, use of complex machine system is not an optimal choice because these places lack infrastructure to run complete systems. Hence open loop Meshes are used for crude Filtration which have replaced Dhotis (fine cotton cloth). This is not a viable and long life material as cost is the most important factor for this segment.



Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

BUTTER FILTERATION AND SEPERATION

In general, fat globules behave like gels and change their dimensional orientation under filtration force .which is less than 10 micron and in some cases the fat globules present in normal milk vary from 0.1 micron to 3 or 4 microns depending upon the breed of cows and various other factors.

Four Different Forms of Fat Globules resent in Milk are:

- Single globules unattached.
- Clusters, consisting of two or more globules loosely attached.
- Clumps, consisting of two or more globules tightly clumped together so that the individual appearance of the globules is almost lost.
- Churned or butter particles in which the individual globules have lost their identity. A homogenizer should break up all the clusters, clumps and butter particles present in unhomogenized milk.

JPT specializes in providing Centrifuges for above said filtration with highest recovery and shortest batch time. JPT also specialized in Fabric Food Grade duct where normal air ducting is troublesome and regular ducting is hazardous.

CENTRIFUGE BAG

FABRIC AIR DUCT

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

PLEATED CARTRIDGE FILTER

Key Features of PP Pleated Filter Elements

Construction & Materials:

- 100% polypropylene construction with thermal bonding technology (no adhesives)
- Pleated design provides 3-4x more surface area than conventional cartridges
- Gradient pore structure for maximum dirt holding capacity
- Multiple micron ratings from 0.1µm to 50µm available

Technical Specifications:

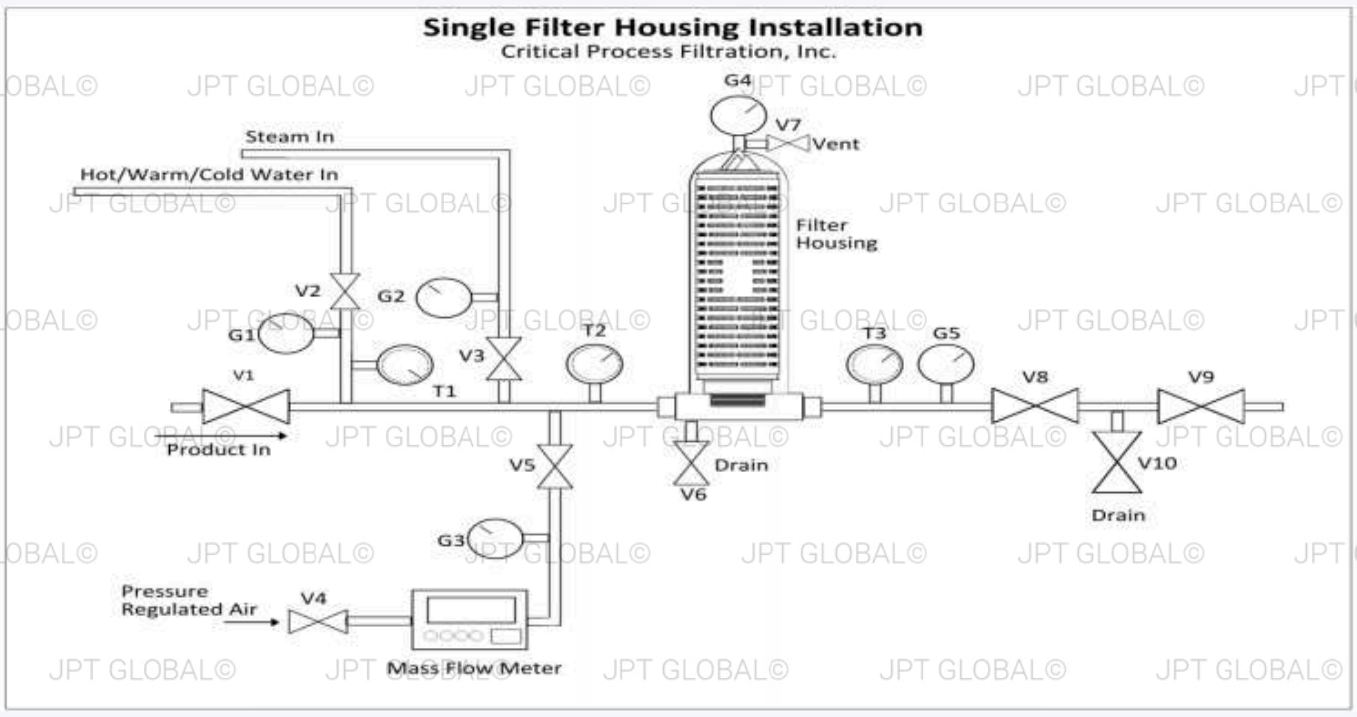
- Outside diameter: 69mm (2.75")
- Inside diameter: 28mm (1.1")
- Lengths available: 5", 10", 20", 30", 40", 50", 60"
- Maximum operating temperature: 85°C (185°F)
- Maximum differential pressure: 4.0 bar (58 psi)

Chemical Compatibility

PP pleated filters offer excellent chemical compatibility across a wide range of applications:

- Acids: Excellent resistance to HCl, H_2SO_4, H_3PO_4 up to 85°C
- Bases: Compatible with NaOH, KOH, NH_4OH solutions
- Alcohols: Excellent with ethanol, methanol, isopropanol
- Water systems: Ideal for deionized, process, and cooling water
- Organic solvents: Good compatibility with acetone, limited with aromatics

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in



Product Range & Applications

Standard configurations include:

- 222/Fin end caps: Bayonet connection with alignment fin
- DOE (Double Open End): Flat gasket seal for universal fit
- Various seal materials: Silicone, EPDM, Viton, NBR options

Primary applications:

- Pharmaceutical industry: API pre-filtration and sterile water systems
- Food & beverage: Process water and ingredient filtration
- Chemical processing: Acid, base, and solvent applications
- Electronics: Ultra-pure water and semiconductor applications
- Water treatment: Municipal and industrial applications

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Filter Element Construction

The pleated design maximizes filtration efficiency through:

- Large surface area: Single 10" element provides 0.65m² filtration area
- High dirt holding capacity: Extended service life compared to depth filters
- Consistent pore structure: Reliable particle retention throughout life
- Thermal bonding: No adhesive migration or contamination risk

PLEATED SPUN CARTRIDGE FOR AIR FILTRATION

Pleated Spun Cartridge Technology and Design

Construction and Media Properties

Pleated spun cartridge filters utilize spun bonded polyester media as their primary filtration material, constructed from 100% high-tenacity filament yarn without binding agents. This construction method creates a structurally stable material that resists hot gas attack and maintains dimensional integrity under severe operating conditions. The spun bonding process produces continuous polyester fibers that are randomly arranged and thermally bonded at filament junctions, creating a gradient density structure from outer to inner surface.

The pleated configuration significantly increases the available filtration surface area, with standard cartridges providing 0.5-20 m² of filtration area depending on size. This expanded surface area enables higher dust holding capacity and longer service intervals compared to flat media configurations. The pleating process uses precise manufacturing techniques to maintain pleat depths of 15-48mm with 48-250 pleats per cartridge, ensuring optimal air flow distribution and dust loading characteristics.

Spun bonded polyester media offers superior properties including tensile strength of 580-950 N/5cm, air permeability of 200-480 L/m^2.s, and operating temperature capability up to 135°C. The material demonstrates excellent dust cake release properties during pulse cleaning cycles, maintaining consistent pressure drop and filtration efficiency throughout the service life. Additional surface treatments such as PTFE coating, oil and water repellent (OWR), and anti-static aluminum coating can be applied to enhance performance in specific applications.

Compact Space Design Advantages

The cylindrical cartridge design provides inherent advantages for compact installations, with standard diameters ranging from 150-325mm and lengths from 300-2000mm. This modular approach allows system designers to optimize filtration capacity within available space constraints by selecting appropriate cartridge dimensions and quantities. Compact space applications typically utilize 150-225mm diameter cartridges with 300-1000mm lengths to maximize filtration area while minimizing equipment footprint.

Pulse jet cleaning systems optimize cartridge performance by maintaining consistent pressure drop throughout the service cycle. The patented cleaning mechanisms thoroughly pulse cartridges using directed airflow, saving energy through more efficient compressed air use while extending cartridge life. Advanced systems incorporate pressure differential monitoring to optimize cleaning cycles, reducing compressed air consumption and maximizing filter efficiency.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

INDUSTRY-SPECIFIC APPLICATIONS

Metalworking and fabrication operations- benefit significantly from pleated spun cartridge technology, particularly in grinding, sanding, welding, and plasma cutting applications. These processes generate fine metallic particles requiring high-efficiency filtration in compact equipment configurations. Cartridge systems handle welding smoke, metal grinding dust, and plasma cutting fumes while maintaining small footprint installations suitable for crowded shop floors.

Pharmaceutical and food processing industries- utilize FDA-compliant cartridge configurations with validated cleaning protocols and sterile filtration capabilities. These applications demand high purity air quality with minimal contamination risk, achieved through absolute-rated media and validated filtration efficiency. Cartridge systems provide easy validation, cleaning verification, and batch-to-batch consistency required in regulated environments.

Woodworking and furniture manufacturing- operations generate high volumes of fine wood dust requiring efficient capture and filtration. Pleated spun cartridges excel in these applications through high dust loading capacity and consistent performance with cellulose particles. The compact design enables integration into existing production lines without major facility modifications.

Chemical processing and powder handling -facilities require explosion-proof configurations with anti-static properties and specialized end cap designs. These installations utilize ATEX-compliant cartridge systems with conductive coatings and explosion venting capabilities to ensure safe operation with combustible materials.

Industrial dust collector pleated spun cartridge filters with a compact cylindrical design for air filtration.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

PORTABLE DUST FILTERING BAGS AND CARTRIDGES

These filter bags are available in both woven and non-woven materials. They allow good airflow, are strong and durable, and effectively trap dust particles. Material options include woven polyester, woven cotton, nonwoven polyester, and lint-free woven polyester.

REVERSE AIR AND MECHANICAL SHAKER FILTER BAGS

Mechanical Shaker and Reverse Air (RABH) filter bags are mainly made from woven filter media and come with accessories such as anti-collapse rings, hangers, and tension springs. Available material options include woven polyester, woven cotton, woven glass fiber, and nonwoven polyester

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

PULSE JET FILTER BAGS

High-performance Pulse Jet Filter Bags ensure efficient dust collection, longer service life, low maintenance, and superior air filtration for industries.

High-quality filter bags ensure better baghouse performance. Our standard pulse filter bags are made with 550 GSM needlefelt, and we also provide special materials and finishes tailored to your dust collection needs. With competitive pricing and many filters ready to ship within 24 hours, we make sure you get the right solution quickly. If you don't find what you need in our range, we also offer custom-designed filter bags

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

FILTER CAGE

Durable Filter Cages provide strong support for filter bags, ensuring proper shape, efficient filtration, and extended bag life in dust collectors.

Pulse-jet baghouses use fabric filter bags supported by internal cages. These cages keep the bags open during the dust collection process and must be strong enough to handle the pressure inside the system. Properly fitted and well-maintained cages ensure efficient filtration, while damaged, rusty, or poorly fitted cages can reduce system performance and cause plant issues. Regular preventive maintenance of both cages and filter bags helps maintain efficiency and avoids costly baghouse repairs

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Venturi and Cones are manufactured in Mild Steel (MS), Aluminium, and Stainless Steel (SS). They are available in diameters ranging from 20 mm to 400 mm and heights from 10 mm to 400 mm, making them suitable for different dust collector applications.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

PLEATED FILTERS

Pleated filters provide high filtration efficiency, larger surface area, longer lifespan, easy installation, and reliable performance for industrial dust collection.

Specification	Details
Product Name	**Snap Band Type Pleated Bags**
Diameter	144 mm, 195 mm
Fitment Diameter	160 mm, 208 mm
Installation Mode	Clean Air Side (Top Entry)
Standard Height	300, 330, 500, 600, 660, 1000, 1400, 1500, 2000 mm
Maximum Height	2000 mm
Cap MOC	Spun GI, SS304, SS316, Aluminum
Inner Cage MOC	Perforated and Expanded GI, SS304, SS316, Aluminum
Surface Area (per 1000 mm)	Up to 3.4 sqm, Up to 5.6 sqm
Seal	With Snap Band

Specification	Details
Product Name	**Threaded Connection**
Diameter	115 mm, 120 mm, 160 mm
Fitment	RD 60 Screw, RD 72 Screw, RD 100 Screw
Installation Mode	Dirty Air Side (Bottom Entry)
Standard Height	300, 330, 500, 600, 660, 1000, 1400, 1500, 2000 mm
Maximum Height	2000 mm
Cap MOC	Spun GI, SS304
Inner Cage MOC	Perforated and Expanded GI, SS304, SS316, Aluminum
Surface Area (per 1000 mm)	Up to 1.92 sqm, Up to 1.92 sqm, Up to 3.4 sqm
Seal	Gasket, Threading

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Specification	Details
Product Name	**WAM Type Pleated Bags**
Diameter	142 mm
Fitment Diameter	Bayonet Twist
Installation Mode	Clean Air Side (Top Entry)
Standard Height	300, 330, 500, 600, 660, 1000, 1400, 1500, 2000 mm
Maximum Height	2000 mm
Cap MOC	ABS
Inner Cage MOC	Perforated and Expanded GI, SS304, SS316, Aluminum
Surface Area (per 1000 mm)	Up to 3.4 sqm
Seal	Inbuilt Gasket

Specification	Details
Product Name	**Pushfit**
Diameter	178 / 144 mm, 230 / 195 mm, 330 / 300 mm
Fitment	144 mm, 150–160 mm, 200–208 mm, 305–310 mm
Installation Mode	Clean Air Side (Top Entry)
Standard Height	300, 330, 500, 600, 660, 1000, 1400, 1500, 2000 mm
Maximum Height	2000 mm
Cap MOC	Spun GI, SS304
Inner Cage MOC	Perforated and Expanded GI, SS304, SS316, Aluminum
Surface Area (per 1000 mm)	Up to 3.4 sqm, Up to 5.6 sqm, Up to 11.5 sqm
Seal	Gasket

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Specification	Details
Product Name	**DIN Fit Pleated Filters**
Diameter	144 mm, 150 mm, 160 mm, 200 mm
Fitment	Through Tie Rod Bolting
Installation Mode	Dirty Air Side (Bottom Entry)
Standard Height	300, 330, 500, 600, 660, 1000, 1400, 1500, 2000 mm
Maximum Height	2000 mm
Cap MOC	GI, SS304
Inner Cage MOC	Perforated and Expanded GI, SS304, SS316, Aluminum
Surface Area (per 1000 mm)	3.4 sqm, 3.4 sqm, 3.84 sqm, 6 sqm
Seal	EPDM Rubber Gasket

Specification	Details
Product Name	**DIN Fit Pleated Filters**
Diameter	214 mm, 325 mm, 350 mm
Fitment	Through Tie Rod Bolting
Installation Mode	Dirty Air Side (Bottom Entry)
Standard Height	300, 330, 500, 600, 660, 1000 mm
Maximum Height	1000 mm
Cap MOC	GI, SS304
Inner Cage MOC	Perforated and Expanded GI, SS304, SS316, Aluminum
Surface Area (per 1000 mm)	6 sqm, 11.5 sqm

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

ROTARY FILTER CLEANER

Rotary Filter Cleaner ensures continuous dust removal, improves filter life, enhances efficiency, reduces downtime, and delivers consistent industrial air filtration performance.

Features

- Blow Pipes made in Extruded Aluminum shafts.
- Central Shaft could be made in Stainless Steel as an option.
- Bearing Housings made in high strength Nylon.
- Long Lasting Aluminum Alloy Plungers.
- Horizontal and Vertical Installations possible.

Benefits

- High Cleaning Efficiency
- Option for both Online and Offline cleaning
- Helps the filter to work at higher ACR
- Uniform filter cleaning
- Low consumption of compressed air
- Lower noise in comparison to pulse valves.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

STATIC AIR FILTERS

Pre Filters

PLEATOFIL® standard pre-filters are made from high-loft woven synthetic media, offering excellent dust-holding capacity. They are available in G3 and G4 (EU-3 and EU-4) ratings. The filter media is sealed to the frame using a sealant, and frames come in Aluminum, Stainless Steel, or Mild Steel with GI or powder-coated finish. Both box-type and flange-type designs are standard, and fire-retardant media options are also available.

Microvee Filters

Pleatofil® standard Microvee Filters are deep-pleated, high-loft 5-micron washable media filters. The media is sealed to the frame with sealant, and frames are available in Aluminum, Stainless Steel, or Mild Steel with GI or powder-coated finish. Both box-type and flange-type constructions are standard, with fire-retardant media options also available.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

STATIC AIR FILTERS

Fine Filters

PLEATOFIL® F-5 / F-6 / F-7 / F-8 / F-9 FINE FILTERS ARE MADE FROM SYNTHETIC MELTBLOWN FILTER MEDIA AND ARE AVAILABLE IN DEEP-PLEAT, POCKET-TYPE, AND MINIPLEAT DESIGNS. FRAMES COME IN ALUMINIUM, STAINLESS STEEL, OR MILD STEEL WITH GI OR POWDER-COATED FINISH, WITH BOTH BOX-TYPE AND FLANGE-TYPE CONSTRUCTIONS AVAILABLE.

Super Fine Filters

PLEATOFIL® F-8 / F-9 (EU-8 / EU-9) SUPER FINE FILTERS ARE MADE FROM SYNTHETIC NON-WOVEN MEDIA OR FIBERGLASS PAPER. FRAMES ARE AVAILABLE IN ALUMINIUM, STAINLESS STEEL, OR MILD STEEL WITH GI OR POWDER-COATED FINISH. BOTH BOX-TYPE AND FLANGE-TYPE FILTERS ARE OFFERED IN DEEP-PLEAT OR MINI-PLEAT CONSTRUCTIONS.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Product Portfolio

JPT offers diverse filter products for pharma, oil, liquid, and industrial applications with assured quality.

For Pharma Industry

CANDLE FILTER

Seamless design for high-pressure conditions.

CENTRIFUGE BAGS

Pharma & food grade, antistatic, USFDA-approved.

POLISH FILTERS

Manufactured with Japanese equipment with hygiene

SPARKLER FILTER PADS

PP, polyester, and cotton variants; lazer cut for precision.

F.B.D. BAGS

Antistatic, lint-free, and pharma-grade for fluid bed dryers.

JPT GLOBAL | Address: D-32, 33, Sector-17 Kavi Nagar, Industrial Area, Ghaziabad - 201002, India

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Product Portfolio

JPT offers diverse filter products for pharma, oil, liquid, and industrial applications with assured quality.

For Pharma Industry

CANDLE FILTER

CANDLE FILTERS ARE HIGHLY EFFICIENT, FULLY AUTOMATIC FILTRATION SYSTEMS DESIGNED TO MEET THE STRINGENT REQUIREMENTS OF THE PHARMACEUTICAL INDUSTRY. THEY ARE USED FOR THE CLARIFICATION, SEPARATION, AND PURIFICATION OF ACTIVE INGREDIENTS, INTERMEDIATES, AND FINAL FORMULATIONS. WITH A COMPACT DESIGN AND SUPERIOR FILTRATION TECHNOLOGY, CANDLE FILTERS ENSURE HIGH PRODUCT RECOVERY, CONSISTENT QUALITY, AND COMPLIANCE WITH CGMP STANDARDS.

APPLICATIONS IN PHARMA INDUSTRY

- API (ACTIVE PHARMACEUTICAL INGREDIENT) FILTRATION
- SOLVENT CLARIFICATION & RECOVERY
- CATALYST FILTRATION AND RECOVERY
- STERILE FILTRATION OF INTERMEDIATES
- PROTEIN & ENZYME CLARIFICATION
- HIGH-PURITY WATER AND SOLVENT FILTRATION

Type of Candle Filter	Key Features	Common Applications
Fiber-Bed (Mist Eliminator)	High mist removal (~99.9%), long life, low maintenance	Metal-working, oil mist, turbine lube oil mist, asphalt
Ceramic (Hot Gas Filtration)	High-temp operation, low emissions, online air-pulse cleaning, catalyst options	Emission control, industrial high-temperature filtration
Pressure Liquid Candle Filter	Automated filtration/wash/dry cycles, compact, safe, no moving parts	Clarifying low-solids liquids in chemical/pharma, food, etc.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Product Portfolio

JPT offers diverse filter products for pharma, oil, liquid, and industrial applications with assured quality.

CENTRIFUGE BAGS

A fabric or mesh bag installed inside a centrifuge drum or basket to separate solids from liquids. The slurry (solid-liquid mixture) is poured into the bag; during centrifugation the liquid (filtrate) passes through the fabric, while solids (the "cake") remain inside. Use-cases: Solid-liquid separation, cake dewatering, washing, clarifying of liquids, handling slurries, etc.

Model	Design Type	Material	Mesh / Pore Size	Key Feature	Typical Application
CB-PET-DLW-50µm	Basket-type, top lift	Polyester DLW weave	~50 µm	Reinforced collar, strong wear resistance	Chemical intermediates; acidic slurry
CB-PP-Mono-100µm	Bottom-discharge	Polypropylene monofilament	~100 µm	Excellent cake release	Food / Oil separation
CB-NY-Fine-5µm	Inverting / liner	Nylon fine mesh	~5 µm	Very fine retention for delicate solids	Pharma / biotech / cell harvest
CB-PEEK-HiTemp	Basket / Insert	PEEK double-layer + PTFE reinforcement	various	High temp & aggressive chemical usage	Special chemicals, harsh organic solvents

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Product Portfolio

JPT offers diverse filter products for pharma, oil, liquid, and industrial applications with assured quality.

POLISH FILTERS

- Polish Filters are filtration systems designed for final or "polishing" stage filtration, ensuring removal of very fine particles, haze, or residual impurities from liquids before final use or packaging.
- They act as a finishing step after primary and secondary filtration (like bag filters, centrifuges, or candle filters), delivering high clarity, purity, and consistency.
- They are essential in pharmaceuticals, beverages, chemicals, and electronics, where ultra-clean filtrates are mandatory.

Type	Description	Typical Applications
Cartridge Polish Filters	Use pleated, depth, or membrane filter cartridges with micron ratings as low as 0.2 µm.	Pharma, food, water purification, chemical polishing.
Lenticular Filters	Disc-shaped modules stacked in housings, offering high surface area and depth filtration.	Wine, beer, spirits, biotech.
Bag-in-Cartridge Style	Hybrid designs with replaceable bag elements for polishing medium clarity liquids.	Paints, oils, lubricants.
Membrane Polish Filters	Ultra-fine membranes for sterilizing-grade or bacteria removal.	Pharma injectables, biotech fermentation broths, electronics-grade water.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Product Portfolio

JPT offers diverse filter products for pharma, oil, liquid, and industrial applications with assured quality.

SPARKLER FILTER PADS

- Sparkler Filter Pads are specialized filter media used in sparkler filter presses, a type of horizontal plate pressure filter.
- These pads hold the filter aid (like activated carbon, diatomaceous earth, or cellulose) and provide a fine filtration stage that removes suspended solids, haze, color, and unwanted particles from liquids.
- They are widely used in industries where clarity, purity, and consistency are critical — e.g., pharmaceuticals, food & beverages, chemicals, and cosmetics.

Parameter	Specification
Filter Media	Cellulose / Cotton / Polypropylene / Polyester
Pad Diameter	8” – 33” (custom available)
Thickness	1 mm – 5 mm
Reinforcement	SS mesh / PP mesh
Micron Retention Range	0.5 µm – 25 µm
Operating Pressure	Up to 7 bar
Operating Temperature	80 °C (cellulose), 150 °C (synthetic fibers)
Applications	Pharma, Food & Beverage, Chemicals, Cosmetics

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Product Portfolio

JPT offers diverse filter products for pharma, oil, liquid, and industrial applications with assured quality.

F.B.D. BAGS

F.B.D. Bags, also known as Fluid Bed Dryer Bags, are a critical component in the fluid bed drying process widely used in the pharmaceutical, chemical, and food industries. These bags are designed to retain fine particles during the drying process while allowing moisture-laden air to escape, ensuring efficient drying and high product recovery. JPT Globals manufactures high-quality F.B.D. Bags using advanced fabrics and precise tailoring techniques to deliver superior performance and durability.

F.B.D. Bags (Fluid Bed Dryer Bags)	Details
Overview	Used in pharmaceutical, chemical, and food industries for drying powders and granules. Retains fine particles while allowing moisture-laden air to escape.
Features	High filtration efficiency, durable fabrics, customizable designs, good air permeability, seamless finishing, easy to install and replace.
Fabric Options	Nylon, Polyester, Antistatic, Non-woven pharma grade.
Applications	Pharmaceuticals, Chemicals, Food industry, Nutraceuticals.
Advantages	Faster drying, prevents cross-contamination, long service life, FDA & GMP compliant.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

For Oil Mills

CANDLE FILTER

Seamless design for high-pressure conditions.

CENTRIFUGE BAGS

Seamless design for high-pressure conditions.

FILTER PRESS CLOTHS

Seamless design for high-pressure conditions.

POLISH FILTERS

Seamless design for high-pressure conditions.

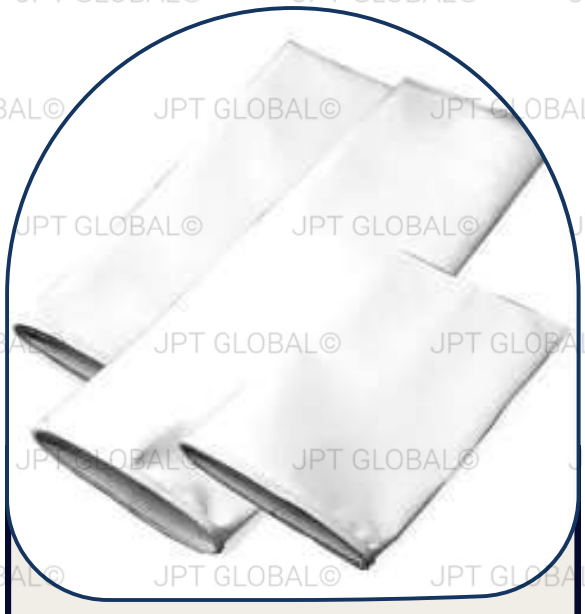
Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Industrial Dust Collector Filter Bags

Our industrial dust collector filter bags ensure superior air filtration, durability, and efficiency across cement, chemical, and pharmaceutical industries.

REVERSE DUST FILTER BAGS

PULSE JET FILTER BAGS



ENVELOPE FILTER BAGS

HIGH-TEMPERATURE FILTER BAGS

PLEATED FILTER BAGS

PTFE MEMBRANE LAMINATED FILTER BAGS

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Industrial Dust Collector Filter Bags

Our industrial dust collector filter bags ensure superior air filtration, durability, and efficiency across cement, chemical, and pharmaceutical industries.

Reverse Dust Filter Bags are specially designed for pulse-jet or reverse-air baghouse systems. They provide superior cleaning efficiency by enabling automatic cleaning through reverse airflow, extending bag life, and maintaining consistent filtration performance.

Feature	Description
Material Options	Polyester, PTFE, Nomex, PPS, and other high-performance fabrics
Cleaning Method	Reverse air or pulse-jet cleaning for continuous operation
Temperature Range	Up to 200°C for standard; high-temp variants up to 280°C
Filtration Efficiency	99%+ particulate removal for fine dust
Design	Seamless or sewn, with support cages for structural integrity
Applications	Power plants, cement factories, pharmaceutical industry, steel manufacturing, chemical plants

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Industrial Dust Collector Filter Bags

Our industrial dust collector filter bags ensure superior air filtration, durability, and efficiency across cement, chemical, and pharmaceutical industries.

PULSE JET FILTER BAGS

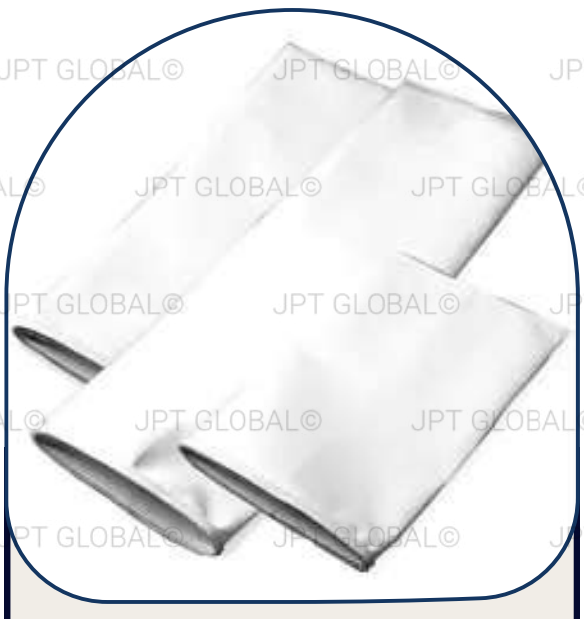
Pulse Jet Filter Bags are high-performance filtration solutions used in baghouse dust collectors. They are designed for continuous operation in industrial applications, providing efficient dust removal while ensuring minimal downtime and maintenance.

Feature	Description
Material Options	Polyester, PTFE, Nomex, PPS, and other specialized fabrics
Cleaning Method	Pulse jet cleaning ensures automatic dust removal using compressed air
Temperature Range	Standard up to 200°C; high-temperature variants up to 280°C
Filtration Efficiency	99%+ removal of fine and coarse dust particles
Design	Seamless or sewn, cylindrical or custom shapes; with support cages if needed
Applications	Cement, steel, power plants, chemical industries, pharmaceuticals, and more

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Industrial Dust Collector Filter Bags

Our industrial dust collector filter bags ensure superior air filtration, durability, and efficiency across cement, chemical, and pharmaceutical industries.



ENVELOPE FILTER BAGS

Envelope Filter Bags are advanced filtration solutions designed for high-efficiency dust collection in industrial applications. Their unique envelope-shaped design maximizes filtration area while maintaining compact installation, making them ideal for continuous operation in dust-intensive environments.

Feature	Description
Material Options	Polyester, PTFE, Nomex, Polypropylene, and other high-performance fabrics
Filtration Efficiency	Up to 99.9% for fine and coarse dust particles
Design	Envelope-style, rectangular or square pockets to increase surface area
Temperature Range	Standard up to 200°C; high-temp variants up to 280°C
Support Structure	Integrated or separate cages for structural integrity
Applications	Cement, power plants, steel, chemical, pharmaceuticals, and other industrial sectors

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Industrial Dust Collector Filter Bags

Our industrial dust collector filter bags ensure superior air filtration, durability, and efficiency across cement, chemical, and pharmaceutical industries.

HIGH-TEMPERATURE FILTER BAGS

High-Temperature Filter Bags are specially designed to withstand extreme heat conditions in industrial dust collection systems. They provide reliable filtration in environments where conventional filter bags would fail, ensuring both operational efficiency and workplace safety.

Feature	Description
Material Options	Nomex, PTFE, P84, PPS, Fiberglass, and other high-temperature resistant fabrics
Temperature Range	Standard up to 250°C; specialized variants up to 280–300°C
Filtration Efficiency	Up to 99% fine dust particle removal
Design	Seamless or sewn, cylindrical or envelope shapes; with or without support cages
Applications	Cement, steel, power plants, chemical, incineration, and other high-temperature industries
Resistance	Excellent chemical, abrasion, and thermal resistance

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Industrial Dust Collector Filter Bags

Our industrial dust collector filter bags ensure superior air filtration, durability, and efficiency across cement, chemical, and pharmaceutical industries.

PLEATED FILTER BAGS

Pleated Filter Bags are engineered for high-efficiency dust collection in industrial baghouse systems. Their pleated design significantly increases the filtration surface area, improving airflow, reducing pressure drop, and extending service life compared to conventional filter bags.

Feature	Description
Material Options	Polyester, PTFE, Nomex, Polypropylene, and other high-performance fabrics
Filtration Efficiency	Up to 99.9% fine and coarse dust particle removal
Design	Accordion-style pleats to maximize filtration area within compact spaces
Temperature Range	Standard up to 200°C; high-temp variants up to 280°C
Support Structure	Internal cages or reinforced seams for structural stability
Applications	Cement, steel, power plants, chemical, pharmaceuticals, and other industrial sectors

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Industrial Dust Collector Filter Bags

Our industrial dust collector filter bags ensure superior air filtration, durability, and efficiency across cement, chemical, and pharmaceutical industries.

PTFE MEMBRANE LAMINATED FILTER BAGS

PTFE Membrane Laminated Filter Bags are advanced filtration solutions designed for industries that require superior dust collection efficiency and emission control. These filter bags combine traditional filter media with a thin PTFE (Polytetrafluoroethylene) membrane, creating a surface filtration layer that captures even the finest particles.

Feature	Description
Material Base	Polyester, Nomex, PPS, Fiberglass, or other fabrics laminated with PTFE membrane
Filtration Efficiency	99.9%+ fine particulate capture, including sub-micron particles
Cleaning Method	Optimized for pulse-jet and reverse-air cleaning
Temperature Range	Standard up to 250°C; high-temp variants up to 280°C
Surface Characteristics	Smooth, non-stick surface prevents dust penetration
Applications	Pharmaceuticals, chemicals, food processing, cement, steel, power plants, incineration units

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Special Products

JPT's special products include dangri uniforms, spray drying filters, and sparkler pads ensuring safety and efficiency.

Dangri (Industrial Uniforms)

Comfortable, durable, and safe uniforms designed for pharma and industrial environments.

Spray Drying Filters

Atomization, grinding, and vibro-shifting applications with SS housings and turnkey filtration solutions

Sparkler Filter Pads

Lazer cut, singed, and contamination-free pads for crystal clear filtrates.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Special Products

JPT's special products include dangri uniforms, spray drying filters, and sparkler pads ensuring safety and efficiency.

Dangri (Industrial Uniforms)

Dangri, also known as Industrial Uniforms or Coveralls, are specially designed garments that provide workers with safety, durability, and comfort in industrial environments. They are widely used in factories, workshops, construction sites, chemical plants, and other industries where protection and a professional appearance are essential.

Feature	Description
Material Options	100% Cotton, Polyester-Cotton Blend, Fire-Resistant (FR) fabrics, Anti-Static fabrics
Design	One-piece coverall style with front zipper or button closure
Durability	Reinforced stitching for heavy-duty usage
Customization	Available with reflective tape, company logo embroidery, and custom colors
Comfort	Breathable fabric, adjustable waist, and multiple pockets for utility
Applications	Engineering, Construction, Oil & Gas, Manufacturing, Mining, Automotive, and Chemical industries

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Special Products

JPT's special products include dangri uniforms, spray drying filters, and sparkler pads ensuring safety and efficiency.

Spray Drying Filters

Spray Drying Filters are highly specialized filter bags designed for use in spray dryer systems, where they capture fine powders and particles generated during the drying process. They are critical for maintaining product purity, recovering valuable powders, and ensuring compliance with environmental and safety regulations.

Feature	Description
Material Options	High-quality food-grade Polyester, PPS, PTFE, or Aramid fabrics
Filtration Efficiency	99%+ fine powder and dust particle capture
Surface Treatment	Options like singeing, calendaring, anti-static, oil- and water-repellent finishes
Temperature Range	Standard up to 200°C; high-performance fabrics up to 280°C
Design	Custom-sized cylindrical or pleated filter bags for spray drying units
Applications	Food & Dairy (milk powder, coffee, whey protein), Pharmaceuticals, Chemicals, Detergents,

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Special Products

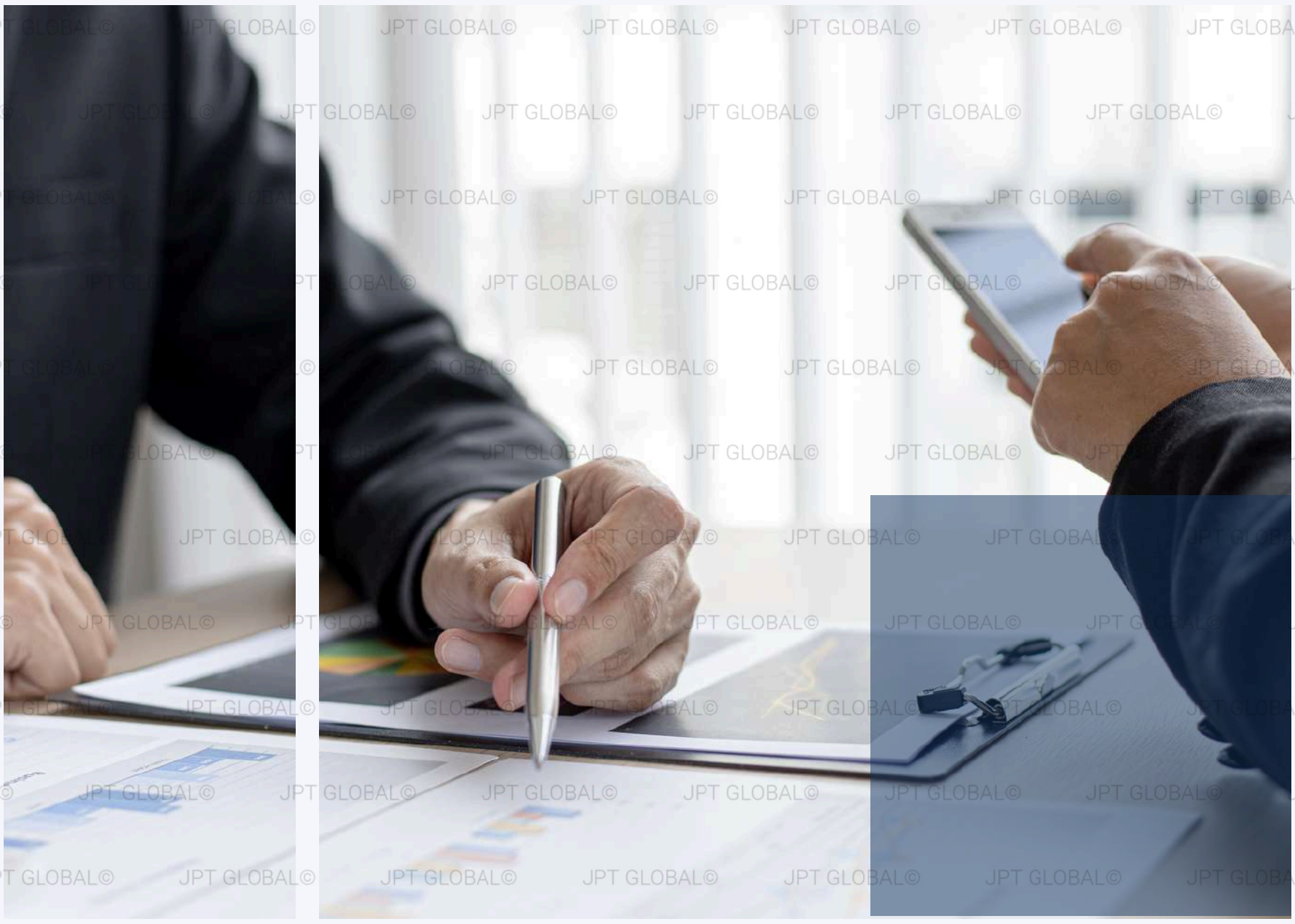
JPT's special products include dangri uniforms, spray drying filters, and sparkler pads ensuring safety and efficiency.

Sparkler Filter Pads

Sparkler Filter Pads are precision-engineered filtration media widely used in pharmaceutical, food, beverage, and chemical industries for fine filtration of liquids. They are designed to deliver clear filtrates, remove impurities, and ensure product purity while being easy to handle and replace in Sparkler Filter Press systems.

Feature	Description
Material Composition	Cellulose, cotton pulp, polypropylene, or special-grade filter media
Micron Ratings	Available from coarse (50 µm) to fine (down to 0.2 µm)
Design	Circular disc-shaped pads with customized thickness and porosity
Compatibility	Suitable for Sparkler Filter Press and other liquid filtration systems
Applications	Pharmaceuticals, Food & Beverages, Distilleries, Cosmetics, Chemicals, Oils

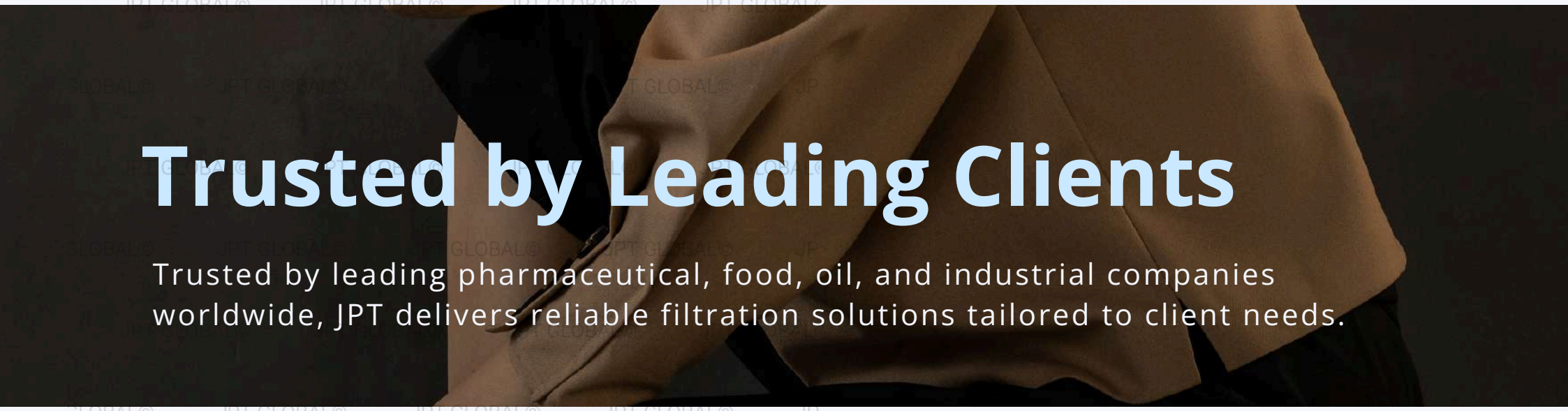
Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in



QUALITY ASSURANCE

- Each product undergoes rigorous in-house testing before dispatch.
- Lazer cutting technology ensures precision, smooth sealing, and no fiber shedding.
- Japanese stitching equipment for hygiene and consistency.
- Compliance with USFDA norms for pharma-grade materials.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in



Trusted by Leading Clients

Trusted by leading pharmaceutical, food, oil, and industrial companies worldwide, JPT delivers reliable filtration solutions tailored to client needs.

Mobile: 0120-4167890, **Website:** www.jptglobal.co.in
E mail: sales@jptglobal.co.in, contact@jptglobal.co.in

Why Choose JPT Global

50+

Years of experience

- Over **50+ years of expertise** in filter textile manufacturing.
- In-house **infrastructure** for weaving, testing, lazer cutting, and air permeability checks.
- Customization as per **client requirements.**
- Antistatic and **lint-free fabrics** for safe and contamination-free filtration.
- Global client base across pharma, food, oil, cement, and **chemical industries.**
- ISO 9001:2008 **Certified Company** ensuring international quality standards.

THANK YOU

We appreciate your time and trust, and look forward to building lasting partnerships through innovation, quality, reliability, excellence, and customer satisfaction.

ADDRESS

D-32, 33, Sector-17 Kavi Nagar, Industrial Area, Ghaziabad - 201002, India

TELEPHONE

0120-4167890

E MAIL:

sales@jptglobal.co.in
contact@jptglobal.co.in

JPT GLOBAL©