

RzW Vinylon

**You envision it.
*We spin it.***

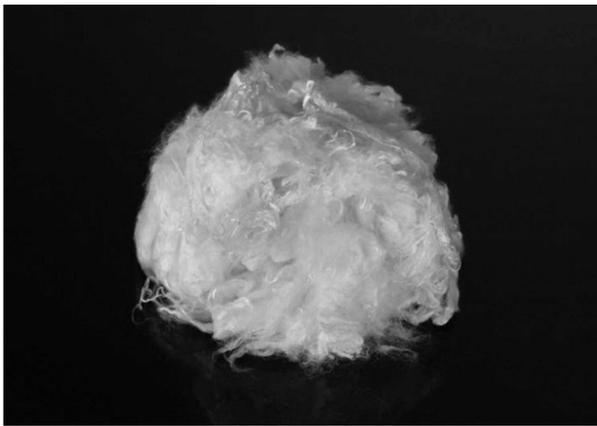




OUR STRENGTH IS DIVERSITY

Here at RzW, we do not simply produce the products that are already on the market. Instead, we think systemically and engineer our products to enrich current industries worldwide. Our engineers and experts delve deep into the heart of the issues faced by our customers to identify the optimal solutions for you. Make no mistake - we are guided by individuals with intimate knowledge of the business and decades of experience.

This approach has been at the core of our operations since our establishment in 2020 in Chongqing. Our company is engaged in the research and development, production, and sales of PVA fibers and its related products. Currently, our factory encompasses an area of 100 acres and produces 10,000 tons of PVA derived products every year.



Solu-Series Fibers -
For Textiles, Paper, and more



Acetal-Series Fibers and Filament Tow -
For Batteries, Ropes, Nets, and more



Filter-Pro -
For Wastewater Treatment



Burst Proof Fibers -
For Refractory Castables

When you work with RzW, you are partnering with the best and receiving the support of our entire team, from upper management to the technicians on site, all dedicated to tailoring our products to fit your needs.



STRIVE FOR PERFECTION WITH OUR PVA PRODUCTS

Fibers. Filament. Vinylon. These terms have one thing in common: polyvinyl alcohol, or PVA. Indeed, one can consider PVA a wonder material. For one, PVA can be produced either from ethylene—a product derived from crude oil—or from acetylene, which is obtained from coal.

However, PVA exhibits properties that far surpass those of its counterparts. At its core, PVA is chemically resistant to multiple types of acids and alkalis, and it is also UV resistant. Furthermore, PVA is high-strength yet water-soluble. For these reasons, PVA has multiple applications across various industries.

Examples of downstream applications utilizing our PVA products include battery separators, hose reinforcements, industrial paper, tire cords, textile lace, textiles, refractory castables, wastewater treatment, medical fields, fiberfill and bedding materials, and more.

Key Properties of PVA

1. High Acid and Alkali Resistance
2. High Strength and Durability
3. Excellent UV Resistance
4. Environmentally Friendly



CUTTING EDGE SOLUTIONS. TAILORED FOR YOU.

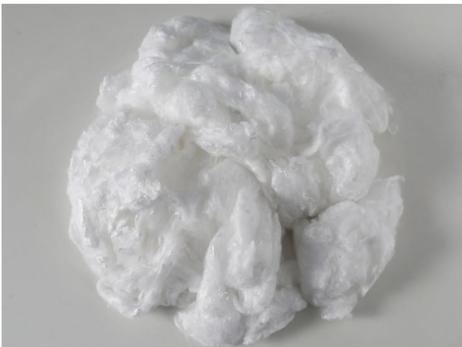
Acetal-Series Products



Our Acetal-Series products help create high-efficiency battery separators. Our fibers deliver exceptional dendrite resistance, stability in alkaline, superior electrolyte retention, and lightweight performance.

Available as **short fibers** or **continuous filament tow**. Our Acetal-Series products also enhance ropes, conveyor belts, and wastewater systems.

Solu-Series Products



Our Solu-series water-soluble PVA products act as temporary structural elements in textile manufacturing, dissolving completely at set temperatures. These environmentally friendly fibers enable creation of exceptionally light, soft textiles with intricate designs.

Available as **staple fiber** or **continuous filament tow**. Our Solu-Series products enhance zero-twist towels, high-count yarns, specialty fabrics, and medical products.

Apparelon



Apparelon surpasses cotton by establishing a new benchmark in textile performance. Our PVA-based fibers offer superior moisture-wicking properties, exceptional tensile strength, and inherent UV/chemical resistance. Compatible with existing manufacturing processes, these fibers can be spun alone or blended without retooling, making them ideal for specialized protective apparel and high-strength military textiles.



CUTTING EDGE SOLUTIONS. FOR EVERY INDUSTRY.

Flufflon



Flufflon combines soy protein with PVA through proprietary wet-spinning to create the premium fiberfill material. This blend delivers exceptional loft with superior compression recovery, natural antibacterial properties, and resistance to UV radiation. With natural anti-static performance that repels dust, Flufflon is ideal for premium bedding, furniture cushions, and stuffed toys requiring lasting softness and durability.

Binder Fiber



Our Binder Fiber transforms ordinary paper into high-performance material with exceptional tensile strength, tear resistance, and burst durability. These specialized fibers optimize paper performance for demanding industrial applications while maintaining dimensional stability under stress. Easily incorporated into existing manufacturing systems, our Binder Fibers deliver superior reinforcement properties while preserving production efficiency.

Filter-Pro Fiber



Filter-Pro helps accelerate natural water purification by creating optimal environments for beneficial microorganisms. By blending PVA and Polyester, our Filter-Pro fiber helps deliver superior performance in biological wastewater treatment when utilized in Snowflake-type rings. Fiber types and doping ratio can be customized to specification for optimal performance in contact oxidation towers, oxidation ponds, and oxidation tanks.



CUTTING EDGE SOLUTIONS. THE FUTURE OF PVA IS HERE.

Burst-Proof Fiber



Burst-Proof Fiber prevents catastrophic cracking in high-temperature refractory linings by creating microchannels for steam to escape. These fibers integrate uniformly throughout castables, melting during initial heating to form micro-pores that safely release trapped water vapor. Unlike conventional alternatives, our solution disperses evenly without clumping while remaining chemically inert—preserving your castable's original chemistry.

Oilfield Fiber



Oilfield Fibers deliver strength in the field with zero residue, enhancing drilling, cementing, and fracturing efficiency. Designed for demanding wellsite conditions, they improve sand transport, fracture conductivity, and plugging performance—ensuring every stage is completed from wellbore to well done with reliable, predictable results across diverse reservoir types.





THE STRENGTH OF PVA. **APPLICATIONS FOR ANY INDUSTRY**

Discover how our cutting-edge PVA innovations are revolutionizing multiple industries worldwide. By enhancing energy storage and engineering next-gen materials, we empower industries with products that outperform and endure. Experience luxurious comfort in premium bedding products, unmatched durability in protective apparel, and superior efficiency in wastewater management systems. Our proprietary technologies provide exceptional strength, precision-engineered functionality, and sustainable performance that helps your products stand apart from the competition.



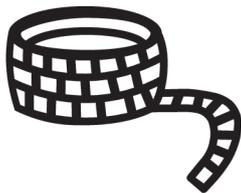
**Battery Separator
Materials**



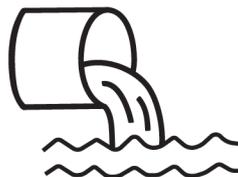
Comfort Products



Apparel



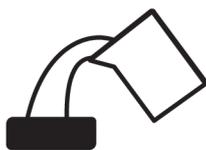
Industrial Ropes



**Wastewater
Treatment**



Paper



**Refractory
Castables**



Farming



Oilfield



ACETAL-SERIES PRODUCTS WHERE ENERGY MEETS EFFICIENCY.

Paper Making Fibers Engineered for the Sustainable 21st Century



Welcome to the future. In a world driven by innovation, mobility, and sustainability, batteries have taken center stage. From the smartphones in your palm to the electric vehicles on our roads, our lives have become intertwined with batteries. As we move towards a sustainable tomorrow, the need for smarter, safer, and more efficient energy storage has never been greater.

Today's customers are demanding new-age, advanced materials that enhance battery performance, especially those used in battery separators. That's where RzW's Acetal-Series fibers come in. Our specially modified fibers are purpose-built to help create high-efficiency separators in both alkaline and rechargeable batteries—delivering the performance, durability, and innovation that 21st-century energy solutions demand.



Acetal-Series
RD-I Fiber



Acetal-Series
RD-II Fiber



Battery Separator Paper
Made with RD-I Fiber



Industrial Paper
Made with RD-II Fiber



Utilizing Fibers in Battery Paper

A battery separator must perform a difficult balancing act. It needs to have an open, porous structure that allows ions to flow freely between the anode and cathode of a battery, producing charge. At the same time, it must be an impermeable physical barrier, preventing contact that would cause a short circuit. To meet the demands of modern batteries, a separator must also offer exceptional chemical stability, low electrical resistivity, and the mechanical strength.

Acetal-Series Fiber: The Perfect Fiber for Battery Separators

A separator built with RzW fibers ensures:

High Strength & Stability

Ensures reliability even in aggressive alkaline solutions and hundreds of charge cycles.

Excellent Electrolyte Retention

Forms a specialized 'web' that effectively holds the electrolyte, improving conductivity and extending battery life

Dendrite Penetration Resistance

Creates a robust barrier that helps prevent the growth of dendrites, a key failure point in batteries.

Lightweight & Thin

Enables design of thinner and lighter batteries without compromising performance or safety

Acetal-Series Filament Tow: Same Great Fiber, But Longer

Our Acetal-Series fibers are also available as continuous filament tows—delivering the same exceptional performance characteristics of our short fibers but in extended, uninterrupted lengths. Through our proprietary spinning and drawing processes, we transform PVA into precision-engineered filament tows that meet exact specifications for the most demanding applications.



RQ (Filament Tow)



Purpose-Built for Any Application

The same properties that make our fibers ideal for battery separators make them exceptional performers in other demanding applications:



Ropes and Wires: Create high-performance mooring lines and lifting slings that are lighter, stronger, and safer than conventional ropes.



Conveyor Belts and Slings: Enhance structural integrity with reinforcement that withstands heavy loads and prevents stretching in harsh environments.



Nori (Seaweed) Farming: Provide ideal growth surfaces for nori cultivation with nets that maintain integrity in saltwater environments.



Fire Hoses: Strengthen fire hoses with exceptional burst resistance and durability under extreme conditions.

Do More - With our Acetal-Series Product Line.



RD-I (Short Cut Fiber)
Ideal for Battery Separators and High-Grade Paper



RD-II (Staple Fiber)
Ideal for Rechargeable Battery Separators



RD-III (Staple Fiber)
Ideal for Ropes, Conveyor Belts and Fire Hoses



RQ (Filament Tow)
Ideal for Seaweed Ropes and other types of Ropes

**ACETAL-SERIES PRODUCTS
Standards and Specifications**

Properties	RD-I (Short Fiber)	RD-II (Staple Fiber)	RD-III (Staple Fiber)	RQ (Filament Tow)
Nominal Linear Density, dtex	0.55 - 1.10 ¹	1.56	1.56	0.55 - 2.0 ¹
Linear Density Tolerance, %	± 10	± 10	± 10	± 10
Tenacity at Break (when dry), cN/dtex	≥ 5.5	≥ 4.4	≥ 4.4	≥ 6.0
Elongation at Break (when dry), %	M ² ± 3.0	M ² ± 3.0	M ² ± 3.0	14.0 ± 5.0
Fiber Length, mm	3, 4, 6	35 - 51	35 - 51	-
Hot Water Resistance, °C	≥ 100	≥ 115	≥ 115	-
Number of Crimps per 25mm, No.	-	≥ 3.5	≥ 3.5	-

¹Customer to specify a target value for Linear Density between this range.

²M values indicate elongation levels between 10–20%, and can be customized to meet customer requirements.



RD-I (6mm Short Cut Fiber)

SOLU-SERIES PRODUCTS

21ST CENTURY SOLUBILITY.

Unlocking the Potential in Advanced Textiles

The modern textile industry is driven by the pursuit of better, lighter, softer, and more intricate textiles. Rather than focusing on traditional weaving methods, we can harness innovative materials that transform the very process of textile creation.

RzW's Solu-series water-soluble Products are engineered to serve multiple purposes in the textile industry. Our products help serve as temporary structural elements—creating sacrificial embroidery bases for elaborate lace patterns or providing water soluble support frameworks for delicate yarns including cotton, wool, and silk.



The result?

Textiles that offer qualities beyond the reach of conventional manufacturing methods, like:

1. Exceptional lightness,
2. Softness,
3. Intricate designs

Versatility in All Forms



RS-8, RS-9 (Staple Fiber)



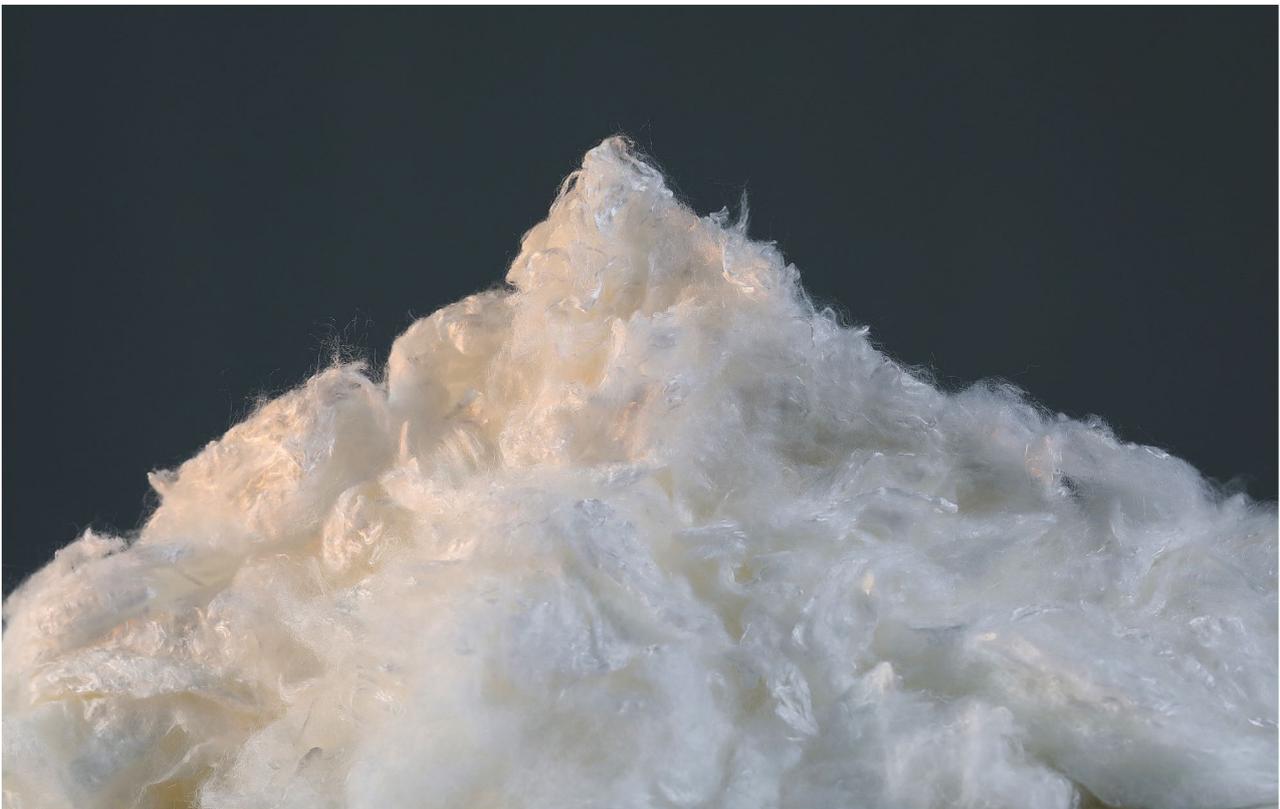
RS-7, RS-8, RS-9 (Filament Tow)

We offer our Solu-series Products in two primary forms – staple fiber and continuous filament tow. This provides unique and greater usage capability, opening up new possibilities for manufacturing efficiency, as well as new uses in multiple industries and new methods of processing fabrics. This allows for multiple formats that can be customized to fit your needs, especially in filament winding applications.

The Gold Standard for Water Soluble PVA Products

Engineered solubility. While our Solu-Series products behave like any conventional fiber during processing and handling, its true marvel is revealed in water. Our fibers are designed to dissolve completely and **consistently** at set temperatures. This means they activate exactly as intended when they reach their specified temperature threshold.

Due to the inherent nature of PVA, our fibers are environmentally friendly. Once dissolved, they form a **non-toxic** solution – ensuring that the discharge will not harm people or the environment.



Solu-Series RS-8 Staple Fiber

The ultimate transition material in textiles.

Purpose-Built for Any Application

Our Solu-series products can be used in both nonwovens and yarns, in applications such as:

- | | |
|---|--------------------------------|
| 1. Zero-twist towels | 4. Lace and embroidery backing |
| 2. High count yarns or fabrics | 5. Disposable medical products |
| 3. Fabric with special tactile properties | 6. Other specialty fabrics |

With Solu-series fibers integrated into your manufacturing process, you can create textiles with lightness and loft, as our fibers enable you to introduce hollowness in the fabric structure

1. Achieve softness, as well as highly absorbent fabrics due to the hollow structures in the final fabric structure after our fiber support is dissolved away.

2. Engineer intricate lace structures with the use of our fiber as dissolvable backing.

3. Produce high count yarn when blended with other fibers like wool, cotton, hemp, and silk.



(1) Absorbent Fabric
Zero-Twist Towel made with our RS-8 Fiber



(2) Lace Patterns
Lace Patterns made with our Solu-Series Products



(3) High Count Fabric
High Count Fabric made with our RS-8 Filament



(3) High Count Fabric
High Count Fabric made with our RS-8 Filament

**SOLU-SERIES STAPLE FIBER
Standards and Specifications**

Properties	RS-8 (W) ¹ Staple Fiber	RS-8 (F) ² Staple Fiber	RS-9 (W) ¹ Staple Fiber	RS-9 (F) ² Staple Fiber
Nominal Linear Density, dtex	1.0 - 2.0 ³			
Linear Density Tolerance, %	± 8.0	± 8.0	± 6.0	± 6.0
Fiber Length, mm	38	38	38	38
Dissolving Temperature, °C	76 ~ 85	76 ~ 85	86 ~ 95	86 ~ 95
Tenacity at Break (when dry), cN/dtex	≥ 3.8	≥ 4.5	≥ 4.5	≥ 4.5
Elongation at Break (when dry), %	22 ± 5	22 ± 5	22 ± 5	22 ± 5
Number of Crimps per 25mm, No.	≥ 3.5	≥ 3.5	≥ 3.5	≥ 3.5
Hot Water Insolubles, %	≤ 0.08	≤ 0.08	≤ 0.08	≤ 0.06

¹(W) signifies fibers for non-woven applications.

²(F) signifies fibers for textile applications.

³Customer to specify a target value for Linear Density between this range.

**SOLU-SERIES FILAMENT TOW
Standards and Specifications**

Properties	RS-7 Filament	RS-8 Filament	RS-9 Filament
Nominal Linear Density, dtex	1.0 - 2.0 ⁴	1.0 - 2.0 ⁴	1.0 - 2.0 ⁴
Dissolving Temperature, °C	70 ± 5	80 ± 5	97 ± 3
Tenacity at Break (when dry), cN/dtex	≥ 4.0	≥ 4.0	≥ 5.0
Elongation at Break (when dry), %	-	16.0 ± 5.0	15.0 ± 5.0
Hot Water Insolubles, %	-	≤ 0.12	≤ 0.12

⁴Customer to specify a target value for Linear Density between this range.



APPARELON FOR PREMIUM TEXTILES.

Beyond Cotton

At RzW, we're committed to pioneering materials that fundamentally transform industry capabilities. For the textile industry, Apparelon represents not merely an alternative to cotton, but a revolutionary step forward in material science. Apparelon establishes a new benchmark that harmonizes exceptional comfort, superior technical performance, and sustainability — essential attributes for tomorrow's premium textiles.



Apparelon
The Next Step in Tomorrow's Textiles.

Superior Performance.

Apparelon's superior performance comes from PVA's natural qualities, which provide several distinct advantages over conventional fibers. These advantages can be utilized in:

1. Specialized and Protective Apparel
2. High Strength and Specialized Textiles for the Military
3. Specialized Industrial Applications



Superior Moisture Management

Unlike cotton that absorbs and retains moisture, our fiber provides active moisture-wicking properties that help to draw perspiration away from skin for rapid evaporation.



Strength and Durability

With superior tensile strength, our fiber allows for textiles aimed at reliability and longevity. With our fiber included in textiles, they resist pulling and fibers maintain structural integrity through wash cycles, or harsh conditions.



UV and Chemical Resistance

PVA has intrinsically high UV and chemical resistance, making it an ideal choice for outdoor apparel and applications where sun exposure is constant.



Seamless Integration

A key advantage of Apparelon is its effortless compatibility with existing manufacturing infrastructure. Similar to existing conventional cotton spinning processes, Apparelon can be spun alone, or blended, without the need for costly retooling. This makes Apparelon the premier choice for applications where strength and reliability are required.



Apparelon: The premier choice for applications where Strength and Reliability are required.

APPARELON Standards and Specifications

Properties	Apparelon
Nominal Linear Density, dtex	1.56 - 2.20 ¹
Linear Density Tolerance, %	± 6.0
Fiber Length, mm	35 - 76
Tenacity at Break, cN/dtex	≥ 8.0
Elongation at Break, %	≥ 13.0
Number of Crimps per 25mm, No.	≥ 12
Hot Water Resistance, °C	≥ 115
Rate of Moisture Regain, %	5.0 ± 1.0

¹Customer to specify a target value for Linear Density between this range.



FLUFFLON

LUXURY. COMFORT. DURABILITY.



Flufflon - The Ultimate Fiberfill

Made from a Proprietary Blend of PVA and Soy

Modern consumer goods require more than just softness - they require innovative materials that are also durable, hygienic, and sustainable. This is the innovation behind Flufflon. By fusing the natural benefits of soy protein with the advanced performance of PVA through a proprietary wet-spinning process, we have created the ultimate fiberfill material.

The Choice for Comfort

Flufflon is the premium fiberfill engineered to bring superior softness and lasting loft into your life. Its versatility makes it the perfect choice for a wide range of applications, including:



Sleep & Bedding Essentials
Bedding, Mattresses, Pillows,
Duvets, and Blankets



Living Room Essentials
Sofas, cushions, and
decorative pillows



Toys and Keepsakes
Dolls and stuffed animals



Flufflon delivers an entirely new level of softness and loft, engineered for only the most premium consumer and bedding applications.

Exceptional Loft and Softness

PVA's natural loft is enhanced by soy fiber, creating a unique structure with a luxurious feel and excellent compression recovery to maintain softness and volume over time.

Inherent Durability and Protection

With natural resistance to alkali, UV rays, and high strength, Flufflon endures repeated washing without degrading or yellowing from sunlight.

Hygienic Properties

Flufflon naturally resists odor-causing bacteria and mold, making it ideal for bedding, toys, and sensitive users.

Anti-Static Performance

Flufflon's natural anti-static properties reduce static buildup, repel dust, and help products stay cleaner and more comfortable over time.

FLUFFLON Standards and Specifications

Properties	Flufflon
Nominal Linear Density, dtex	1.67
Linear Density Tolerance, %	± 10.0
Fiber Length, mm	51
Tenacity at Break, cN/dtex	4.0
Elongation at Break, %	≥ 14.0
Number of Crimps per 25mm, No.	≥ 4.1
Oil Content, %	0.30 - 0.60
Hot Water Resistance, °C	≥ 95
Rate of Moisture Regain, %	≤ 5.0
Protein Content, %	2.0 - 25.0



Flufflon - Easily Woven Fiberfill



Flufflon - Naturally Soft and Lofty



BINDER FIBER **ELEVATING PAPER PERFORMANCE.**

Making Paper Strong Again

Just as our Solu-Series products are tailored for the textile industry, our Binder Fiber is specifically engineered for paper manufacturing. To achieve the next level of quality and functionality, papermakers need an additive that integrates seamlessly into their process while fundamentally enhancing the final product.

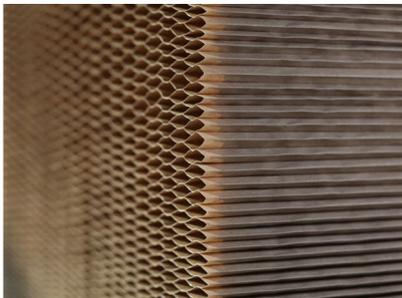


RSY-6 Binder Fiber

Reinforces from Within

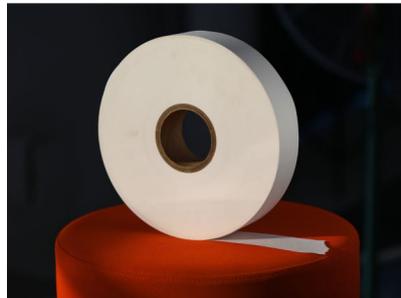
When introduced into the paper pulp slurry, our Binder Fibers disperse evenly and form strong bonds with the paper fibers. Acting as an intrinsic reinforcing agent, they strengthen the paper from within—resulting in a more durable, robust, and high-performing final product.

Our Binder Fiber helps unlock the full potential of paper by:



Strength Enhancement

Our fibers help paper fibers bond better, resulting in superior tensile strength and higher resistance to tearing and bursting.



Optimizing Durability

With higher strength, our fiber helps your paper become a more durable product.



Print Quality Enhancement

Our fibers can help with ink and dye retention, leading to sharper printing, richer colors, and higher gloss.





Binder Fiber - *The Multifunctional Solution for Paper*

BINDER FIBER

Standards and Specifications

Properties	RSY-6	RSY-7	RSY-8	RSY-9	RSY-L
Nominal Linear Density, dtex	1.0 - 2.0	1.0 - 2.0	1.0 - 2.0	1.0 - 2.0	-
Fiber Length, mm	3, 4, 6, 8	3, 4, 6, 8	3, 4, 6, 8	3, 4, 6, 8	4, 6
Dissolving Temperature, °C	60	70	80	90	≥ 95
Sodium Sulfate Content, %	20	20	20	20	≤ 18
Solubility in Water	Yes	Yes	Yes	Yes	No

FILTER-PRO FIBERS

SMARTER FIBERS. CLEANER WATER.



Filter-Pro fibers, pictured with Snowflake rings

Versatile Performance.

Our Filter-Pro Fibers are perfectly suited for essential equipment in the wastewater treatment industry, including:

1. Contact Oxidation Towers
2. Oxidation Ponds
3. Oxidation Tanks

Enhancing Water Purification. The natural way.

Water is essential to life, and keeping it clean is a global responsibility. Meeting rising demand requires sustainable treatment methods that work with nature—like using specialized microorganisms to break down pollutants in wastewater.

At RzW, we accelerate this natural process. Our Filter-Pro Fibers provide an optimal environment (biofilm) for beneficial microbes to thrive, boosting efficiency and transforming waste into safe, reusable water—protecting both communities and ecosystems.

Engineered for Peak Biofilm Efficiency

The exceptional performance of our Filter-Pro Fibers comes from a proprietary design developed by RzW's R&D team. By blending polyester and PVA through a specialized spinning process, the fibers integrate seamlessly into a wide range of aerobic treatment systems, with customizable doping ratios to meet specific needs.

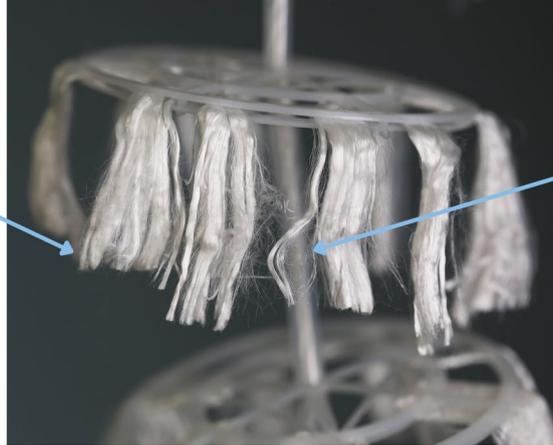


A typical wastewater treatment plant that can utilize our Filter-Pro fiber.

When incorporated into Snowflake-type packing rings, our Filter-Pro Fibers play a vital role in maximizing biofilm attachment and enhancing oxygen transfer through efficient bubble shearing.

Maximizes Biofilm Attachment

Fibers help add even more surface area for microorganisms to colonize.



Enhances Oxygen Transfer

As air is pumped into the tank, the fibers shear large, air bubbles into micro-bubbles. This increases the available oxygen to the microorganisms, increasing efficiency.

FILTER-PRO FIBERS
Standards and Specifications

Properties	Filter-Pro Fiber
Nominal Linear Density, dtex	0.55 - 2.0 ¹
Linear Density Tolerance, %	± 10
Tenacity at Break (when dry), cN/dtex	≥ 6.0
Elongation at Break (when dry), %	14.0 ± 5.0
Doping Ratio between PVA and Polyester	Can be Customized

¹Customer to specify a target value for Linear Density between this range.



BURST-PROOF FIBERS **THE REFRACTORY CASTABLE ESSENTIAL.**

The perfect addition to furnaces, kilns and other high temperature concrete liners.

High-performance refractory castables, commonly used as heat-resistant linings, suffer from a crucial flaw: trapped water.

During the initial heating of a furnace or kiln, this microscopic water turns into high-pressure steam, leading to violent cracking. Unfortunately, this moisture doesn't evaporate during the initial low-temperature curing process.

One method to prevent this is to introduce microchannels for the steam to escape. However, common solutions like aluminum powder or standard organic fibers can alter material chemistry and cause clumping. Our Burst-Proof Fibers avoid these issues—reducing drying time, releasing water vapor efficiently, and preventing cracking.



Trapped water leads to broken linings that require costly downtime and repairs.

Best for your castables. Seamless Integration.

Expect the best for your castables. Our Burst-Proof Fiber offers superior dispersibility compared to other solutions, spreading evenly throughout your mix to prevent clumping. Crucially, our fiber is chemically inert and will not affect your castable's chemistry or viscosity, ensuring your mix performs exactly as designed. Our fiber can be used in castables like:

- **Aluminum-Silicon**
- **Aluminum-Magnesium**
- **Aluminum-Silicon Carbide**
- **Magnesium-based**
- **Other refractory castables**



Burst-Proof Fibers can be used in most types of castables.



Controlled Permeability in Refractory Castables

Optimized for amorphous refractory castables, the fibers melt as the furnace heats, forming micro-pores and channels that let steam escape safely—minimizing cracks and preventing lining failure. With our fibers, you ensure:

Corrosion Resistance and Structural Integrity:

Our fibers help reduce cracking in liners. Since large cracks are the main pathways for slag and metal penetration, preventing their formation is critical for maintaining a reliable, corrosion-resistant lining.

Excellent Dispersibility with No Clumping:

The fibers disperse evenly throughout the castable mix, preventing clumps and ensuring a uniform network of channels.



Burst-Proof Fibers help minimize cracks by letting steam escape easily.

Optimized Melting point:

Engineered to melt at the right stage during initial heating, the fibers create permeability exactly when needed.

BURST-PROOF FIBER Standards and Specifications

Properties	Burst-Proof Fiber
Nominal Linear Density, dtex	0.56, 1.0, 2.0, 3.0, 5.0
Fiber Length, mm	3, 4, 6, 8, 10
Fiber Diameter, um	7, 11, 20, 30, 50
Dissolving Temperature, °C	20, 40, 60, 70, 90, 105
Water Content, %	≤ 5



Burst-Proof Fiber - The Ultimate Addition in Refractory Castables



OILFIELD FIBERS IMPROVE OIL EXTRACTION EFFICIENCY. NOW.

Enhanced Drilling, Cementing, and Fracturing

Our fibers are designed for multiple upstream energy applications, including drilling, cementing, fracturing, sand control, and production support. They can also be adapted for certain Enhanced Oil Recovery (EOR) methods requiring controlled degradation.

The addition of our Oilfield Fibers enhances sand-carrying capacity, optimizes fracture conductivity, reduces backflow risks, and provides predictable degradation timelines.



Oilfield Fibers utilize PVA to enhance Oil and Gas Extraction Efficiency.



Leaves No Residue

Our fiber leaves zero residue in formations or equipment after use (for example, in fracturing), preventing contamination and reducing cleanup needs—supporting sustainable energy operations and meeting stringent environmental standards.

Proven Versatility Across Oil Field Operations

From lost-circulation control and cement reinforcement to proppant transport, sand control, and temporary plugging, these fibers integrate seamlessly into existing workflows. They are fully compatible with resins, emulsions, and other additives, delivering stable performance even under high temperature and pressure.



Oilfield Fibers Enhance Extraction By:

Hydraulic Fracturing

Our fibers help fluid flow to create new fracture paths.

Proppant backflow is significantly reduced, leading to a slight increase in pressure.

Field trials have shown reduced sand production, improved fracture distribution, and measurable gains in oil and gas output.

Drilling

In drilling, the fiber forms a durable network within the mud, suspending sand, sealing fissures, preventing fluid loss, and stabilizing wellbores.

Oil Well Cementing

In cementing, it strengthens cement stone, reduces cracking, and improves ductility—solving both slurry loss and long-term durability issues.

Sand Control & Consolidation

Reduces sand production, strengthens formation stability, and increases hydrocarbon recovery.

Temporary Plugging

Creates effective seals for staged fracturing or fluid diversion, improving stimulation results.

Our Oilfield Fibers are mostly suitable for shale gas, tight oil, coalbed methane, and other types of reservoirs, especially those requiring post-degradation in medium to low temperature formations (<120 °C)

OILFIELD FIBER Standards and Specifications

Properties	Oilfield Fiber
Nominal Linear Density, dtex	2.0 ± 0.2
Fiber Length, mm	6
Fiber Density, g/cm³	1.25 - 1.30
Solubility (90 °C, 30 min), %	≤ 10%
Acid Solubility (150 °C, 4 hours, 2% HCl), %	≥ 90%



Oilfield Fiber - Fiber Technology for Cleaner, Stronger Wells.



Smart Packaging.

Our products are packaged in laminated woven bags, available in 15 kg, 20 kg, 25 kg, 50 kg, and 150 kg sizes. Due to the inherent properties of PVA, our products should be stored in a cool, dry, and well-ventilated warehouse, away from direct sunlight and moisture.



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