GRS Pulp - High-Performance Para Aramid Pulp

Product Overview

GRS Pulp is an advanced **Para Aramid Pulp** designed for extreme durability, heat resistance, and superior reinforcement across multiple industries. It's a revolutionary solution for high-performance applications, offering **Unmatched Strength, Thermal Stability, and Sustainability**.

- GRS Pulp is produced from **100% Poly-paraphenylene terephthalamide aromatic polyamide**.
- This pulp consists of highly strong, chemical resistance fibers that provide excellent bonding, high tear-tensile strength, and good stiffness, as well as good compatibility in composites.
- The pulp is a **highly fibrillated form of the fiber** that can be dispersed into many different matrix systems.
- The fibrillation results in a high surface area of 9 g/m2 to 12 g/m2.
- **Availability:** GRS Pulp is available in **wet form** (approx. 50% moisture) for dilute, aqueous dispersions and **dry form** (6% moisture) for solvent-based dispersions and dry mixes[7]. Various fiber lengths are available to meet engineering design needs.
- It enhances the performance of elastomers, thermoplastics, and thermoset resins, especially where **high-temperature performance** is required.

Key Features

- **Exceptional Tensile Strength:** Provides superior reinforcement and durability.
- **High Heat Resistance:** Withstands temperatures up to **400 Deg C** without degradation.
- **Excellent Chemical Stability:** Resistant to acids, alkalis, and solvents.
- **Lightweight & Eco-Friendly:** Sustainable and enhances fuel efficiency in automotive applications.
- **Improved Friction & Wear Performance:** Ideal for high-friction environments.

Physical Properties

Property	Unit	Value
Material	-	100% Para Aramid
Color	-	Light Yellow
Staple Length	mm	0.5 – 5
Specific Surface Area	M2/gm	7.0 – 11.0
Specific Gravity	G/cc	1.45
Minimum Service Temp, Air	Deg C	-200 Deg C
Maximum Service Temp, Air	Deg C	350 Deg C
Bulk Density	g/cc	0.048 - 0.112

NOTE: The information contained here represents typical values intended for reference and comparison purposes only. They should **NOT** be used as a basis for design specifications or quality control. All values are at 23 Deg C unless otherwise noted.

Why Choose GRS Pulp?

- **Best-in-Class Performance:** High dispersion and superior bonding strength.
- **Sustainable & Cost-Effective:** Reduces material wear and maintenance costs.
- **Trusted by Industry Leaders:** Compliant with global safety & quality standards.
- **Reliable Supply:** We maintain a reliable supply chain to ensure timely delivery.

Applications

- **Friction Materials:** Brake Pads, Clutch Facings.
- **Sealing & Gaskets:** High-Performance Industrial Seals.
- **Advanced Composites:** Aerospace, Defense.
- **Thermal Insulation Materials**.
- **Rubber Reinforcement:** Tires, Industrial Belts.

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