

Technical Data Sheet

Product Name: JC Ultrafill-500

Chemical Composition: Specialty treated functional filler with dispersing agent

Product Description: JC Ultrafill-500 is a surface-treated, ultra-fine functional mineral filler engineered to enhance dispersion and overall physical performance in rubber systems.

Sr. No.	Properties	Unit	Specifications
1	Appearance	-	Off white powder
2	Sp. Gr. at 25°C	-	2.60-2.65
3	Bulk Density	g/ml	0.35 ± 0.1
4	Solubility in water	-	Insoluble
5	Solubility in mineral acid	-	Partly Soluble
6	pH of 10 % aq. solution	-	> 8.0

Advantage:

Excellent dispersion, avoids filler agglomeration
Ensures smooth extrusion process and low die swell
Enhances stiffness and abrasion resistance

Standard Packing: 25 KG Bag

Shelf life: 5 Years from D.O.M (If kept dry & uncontaminated)

Storage: Store in cool and dry place

Dosage: As per requirement

Mode of Action: JC Ultrafill-500 uses a special dispersing agent that allows it to mix quickly and evenly into the rubber. At the same time, its high surface area binds well with the rubber matrix to increase compound strength and stiffness.

Application: 1. Compatible with NR and Synthetic Rubbers such as SBR, PBR, and EPDM.
2. The product is specifically formulated for **Butyl (IIR)** and **Halo butyl (BIIR/CIIR)** inner tube applications. It facilitates formulation optimization by replacing up to 10% of Carbon Black without compromising critical physical properties, while simultaneously enabling a 1 PHR reduction in process oil. Furthermore, its ultra-fine particle size and increased surface area enhance the compound's gas impermeability, resulting in superior air retention.

Declaration: All Information in This Publication is in Accordance With Our Present Experience and Knowledge. However, Since We Have No Influence on the Way in Which Our Products Are Treated and Used, We Can Not take Any Responsibility in This Respect. The User Must Assume Responsibility Himself For Checking Whether The Products Are Suitable For The Purpose And Use Proposed By Him. All Existing Proprietary Rights, laws And Regulations Shall Be Observed.

Jayam Chemicals LLP

Plot no. 31/A, Part A, Opp. Baumer Industries,
1st phase, GIDC Vapi-396195,
GSTIN/UIN: 24AAGFJ3239G1ZK
Phone: 0260- 2425399
Email: info@jayamchemicals.com
<https://www.jayamchemicals.com/>