

SUPER INNOVATIVE TEXTILES

SIT-META ARAMID

Technical Data Sheet

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Product Specification

Our Meta-Aramid staple fibre is a high-performance aromatic polyamide engineered for safety and reliability in extreme environments. It offers inherent flame retardancy, thermal stability up to **200°C** continuous use, and strong resistance to chemicals and abrasion. Widely used in protective clothing, industrial filtration, and electrical insulation, its built-in protection never washes out or wears off, ensuring long-term performance and sustainability.

Key Features

- Inherent Flame Retardancy (Never washes out)
- Thermal stability up to **200°C** for continuous use
- Strong resistance to chemicals and abrasion
- Non-conductive and excellent electrical insulation

Available Forms

Meta Aramid Staple Fibre:

Fineness: 1.7 Dtex, 2.2 Dtex

Staple Length: 51 mm / 61 mm

Colours: White, Navy, Royal Blue, Orange, etc.

Applications

Protective Clothing

Industrial Filtration

Electrical Insulation

Gaskets & Packing

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Physical & Thermal Properties

The values listed below are typical and can vary depending on the yarn count and blend ratio.

ATTRIBUTE	SPECIFICATION
Fibre Type	Virgin Meta Aramid
Linear Density	1.38 g/cm ³
Fineness	1.7 Dtex / 2.2 Dtex
Tenacity	4.5 cN/Tex
Diameter	12-16 Micron
Thermal Stability	Decomposition above 400°C; no melting, no dripping
Limiting Oxygen Index (LOI)	> 28
Service Temperature	Up to 200°C
Moisture Regain	~4.5%
Chemical Resistance	Excellent against Acid, Alkali, and Organic Solvent

Electrical Properties

This material is highly suitable for insulation applications requiring superior electrical performance.

ATTRIBUTE	SPECIFICATION
Volume Resistivity (dry)	~10 ¹⁴ Ω·cm
Dielectric Strength	High, suitable for insulation applications