

Technical Data Sheet (TDS)

Product Name:	PIONEER [®] HPM [®] Basalt
Product Type:	Basalt Fiber for Concrete Reinforcement
Manufacturer:	PIONEER [®] Fiber Technologies

Product Description:

PIONEER[®] HPM[®] Basalt is a premium chopped basalt fiber designed for high-performance concrete (HPC), ultra-high-performance concrete (UHPC), and general fiber-reinforced concrete applications. Made from 100% natural basalt, it enhances crack resistance, tensile strength, and durability.

Technical Specifications:

- Material: 100% natural basalt fiber
- Type: Chopped continuous filament
- Specific Gravity: 2.65 g/cm³
- Diameter: 13 µm (typical)
- Length: 6 mm, 12 mm (customizable)
- Tensile Strength: 2000–2800 MPa
- Modulus of Elasticity: 85–95 GPa
- Chemical Resistance: Excellent
- Color: Natural gray

Dosage & Usage:

- Recommended Dosage: 0.6–1.8 kg/m³ (1.0 kg/m³ common)
- Add fibers with aggregates and cement; ensure uniform dispersion.

Packaging Options:

- Bulk ton bags
- Pre-measured water-soluble or plastic bags