

Optical Fiber Tool**TECHNICAL DATA SHEET****1 μm Fiber Optic Polishing Film**

1 μ m Fiber Optic Polishing Film

Product Description

The 1 μ m Fiber Optic Polishing Film is a precision lapping film designed for the fine polishing stage of fiber optic connector ferrules. It utilizes premium aluminum oxide (Al_2O_3) abrasive particles uniformly coated on a durable polyester (PET) backing to deliver excellent polishing consistency, low scratch rates, and superior end-face quality.



With a 127 mm (5-inch) diameter, this polishing film is compatible with most standard manual and automatic fiber optic polishing machines. It is ideal for polishing SC, LC, FC, ST, MU, MPO/MTP, and other ceramic ferrule connectors used in telecommunications, FTTH, CATV, and data center applications.

Product Features

- Precision **1 μ m aluminum oxide abrasive**
- Designed for fine polishing applications
- Uniform abrasive particle distribution
- Produces excellent connector end-face quality
- Low scratch and defect rate
- High polishing consistency
- Long service life
- Excellent wear resistance
- Suitable for manual and automatic polishing equipment
- Compatible with standard 127 mm polishing machines

Applications

- Fiber Optic Connector Manufacturing
- Fiber Connector End-Face Polishing
- FTTH Component Assembly
- Telecommunications Equipment Production
- Optical Patch Cord Manufacturing
- Fiber Optic Repair and Maintenance
- CATV Networks
- Data Centers

Product Specifications

Parameter	Specification
Product Type	Fiber Optic Polishing Film
Abrasive Material	Aluminum Oxide (Al ₂ O ₃)
Abrasive Size	1 μm
Film Diameter	127 mm (5 inch)
Film Color	Purple
Backing Material	Polyester (PET)
Quantity	1 Piece
Surface Finish	Precision Coated
Polishing Stage	Fine Polishing

Compatible Connectors

- SC
- LC
- FC
- ST
- MU
- E2000
- MPO/MTP
- SMA
- DIN Connectors

Mechanical Specifications

Item	Specification
Film Shape	Circular
Diameter	127 mm
Backing Material	PET Polyester
Abrasive Coating	Precision Uniform Coating
Wear Resistance	High

Environmental Performance

Parameter	Specification
Operating Temperature	0°C to +50°C
Storage Temperature	-20°C to +60°C
Storage Humidity	<70% RH
Storage Condition	Clean and Dry Environment