

CryoFiG® Fabric Technical Datasheet

Cryogenic Adhesive Tape — Fiberglass Fabric for Cryogenic Applications

High-Performance Cryogenic Tape for Extreme Temperature Applications

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PRODUCT DESCRIPTION

CryoTape® series from East Far are a family of cryogenic-temperature, lightweight adhesive tapes engineered to secure and bond CryoMLI® series insulation materials in cryogenic environments, including liquid helium (4K) applications. Drawing on thermal control expertise and manufacturing excellence, combined with extensive field experience in aerospace, transport cryogenic vessels, and medical applications, East Far delivers customized solutions to ensure optimal performance under the most demanding conditions. CryoFiG® Fabric is a specialized fiberglass fabric designed to secure and reinforce CryoMLI® series insulation materials in cryogenic environments. Widely used in cryogenic liquid vessels and pipeline systems.

PRODUCT CONSTRUCTION

Structure	Fiberglass Fabric (Cryo)
Total Thickness	0.1 ±0.05 mm
Weight	110 ±10 g/m²
Length	250 m
Width	1050 mm

Service Temperature: 4K (–269°C) - 533K (260°C)

FEATURES

- ✓ High quality material — Liquid Helium (4K) compatible
- ✓ High temperature resistance up to 533K (260°C)
- ✓ Solvent resistance
- ✓ Aging resistance
- ✓ Chemical resistance
- ✓ Stable performance across extreme thermal cycling

TYPICAL PHYSICAL PROPERTIES

Note: The following technical information should be considered representative only and should not be used for specification purposes.

Test	Typical Value	Test Method
Application Temperature Range	4K (–269°C) - 533K (260°C)	Application test
Weight	110±10 g/m²	ASTM D-1682
Tensile Strength	≥400 N/25mm	GB/T 7753
Elongation at Break	5%	ASTM D-3759
Shelf Life	24 months from date of manufacture	Internal

APPLICATION MARKETS

- ✓ Cryogenic vessels and transfer lines
- ✓ Liquid helium applications
- ✓ Superconducting cables
- ✓ Nuclear fusion cryogenic modules

CLASSIFICATIONS & COMPLIANCE

Fire Safety Properties	
Flame Spread Index (ASTM E84 / UL 723)	0
Smoke Developed Index (ASTM E84 / UL 723)	0
UL Classification	Class A (ASTM E84 / UL 723)
Backing Flammability	Non-combustible (Fiberglass Fabric)
Adhesive Flammability	N/A (Adhesive-free)
DIN 4102	A2 (DIN 4102)
EN 13501-1	Class A1 (EN 13501-1)

Standards: Compliant with GB/T 31480-2015 · GB/T 31481-2015 (ISO 201010:2014) · NB/T 47059-2017

STORAGE & SHELF LIFE

Storage: Store in a clean, dry place. Recommended conditions: 4 – 26°C (40 – 80°F) and 40 – 50% relative humidity.
Shelf Life: 12 months from date of manufacture when stored under recommended conditions.

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