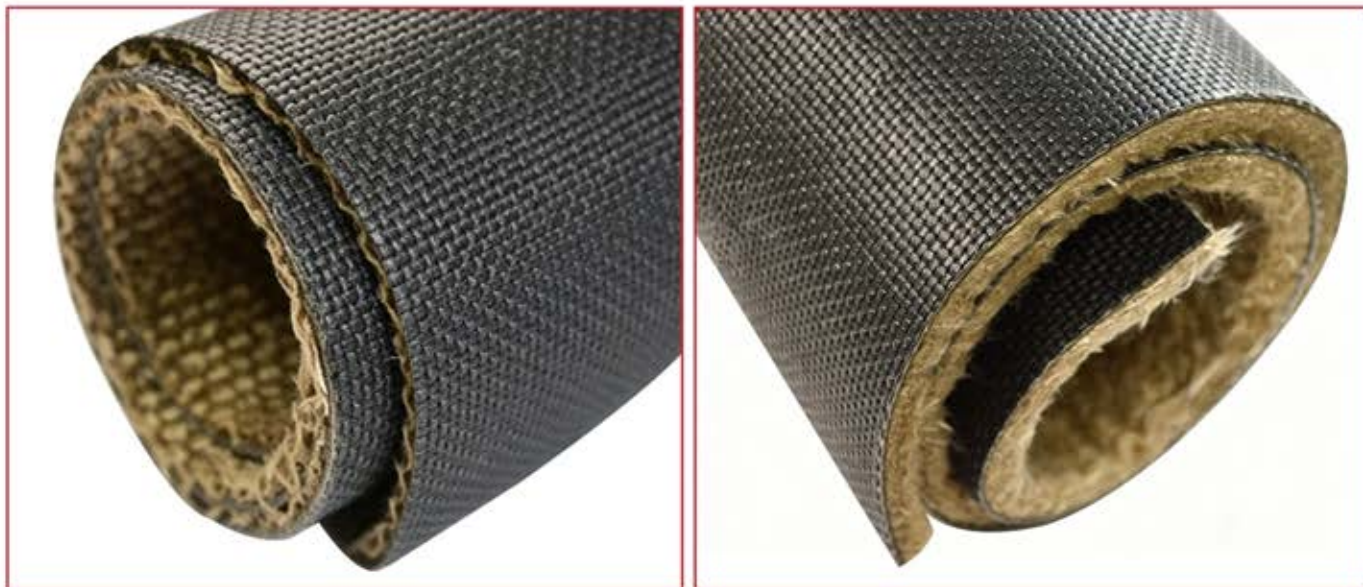




PTFE Film Laminated Fabric Laminated with Insulation Mat/Fabric

Product Overview

ESONE produces high-performance non-metallic expansion joint materials composed of a laminated structure combining a non-porous PTFE/fiberglass composite with a fiberglass thermal insulation layer. These materials are engineered to withstand extremely high temperatures while delivering exceptional tensile strength, tear resistance, and long-term durability under demanding industrial conditions.

The primary difference between the four major products lies in their laminated film, insulation core and temperature limits:

- **ESLAM 2001GM** utilizes **PTFE casting film** laminated with PTFE coated fabric, with a 1/2" **nonwoven** insulation mat laminated on the back, engineered for extreme heat applications with a continuous operating temperature of up to **538°C(1000°F)**.
- **ESLAM 2001TM** utilizes a **PTFE casting film** laminated with PTFE coated fabric, with rugged 3/8" **woven** fiberglass insulation fabric laminated on the back, designed for continuous operating temperatures up to **454°C(850°F)**.
- **ESLAM 1406GM** utilizes **PTFE cross laminated film** laminated with PTFE coated fabric, with a 1/2" **nonwoven** insulation mat laminated on the back, engineered for extreme heat applications with a continuous operating temperature of up to **538°C(1000°F)**.
- **ESLAM 1406TM** utilizes a **PTFE cross laminated film** laminated with PTFE coated fabric, with rugged 3/8" **woven** fiberglass insulation fabric laminated on the back, designed for continuous operating temperatures up to **454°C(850°F)**.

Key Features

- **Enhanced Structural Integrity:** The laminated perfluoroplastic composite backing provides superior load-bearing strength and resiliency to the insulation layer.
- **Extended Service Life:** The added structural integrity prevents the insulation from degrading prematurely and helps prevent dangerous "hot spots" from forming on the expansion joint belt.
- **Simplified Installation:** By combining the insulation and the outer membrane into a single laminated component, the installation process becomes significantly faster and easier compared to traditional multi-layer systems.
- **Excellent Thermal Insulation:** Both materials demonstrate a high capability to maintain a significant temperature differential (ΔT) between the hot flue gas side and the ambient room-temperature side.
- **Versatile Fabrication:** Both products can be easily fabricated into numerous expansion joint shapes and sizes to fit custom ductwork and equipment.

Typical Applications

- High-temperature flue gas ducting and exhaust systems.
- Non-metallic expansion joints in power generation plants, chemical processing facilities, and heavy industrial foundries.
- Applications requiring either rugged woven (TM) or high-insulating nonwoven (GM) thermal barriers.

Style	Nominal Thickness mm(in)	Weight g/m ² (oz/yd ²)	Tensile strength in warp N/5cm(lbf/in)	Description
ESLAM 2001GM	12(0.47)	4000(118)	11000(1256)	ESLAM 2001 laminated with insulation mat
ESLAM 2001TM	8.7(0.34)	5260(155)	11000(1256)	ESLAM 2001 laminated with insulation fabric
ESLAM 1406GM	12(0.47)	4100(121)	11000(1256)	ESLAM 1406 laminated with insulation mat
ESLAM 1406TM	8.7(0.34)	5280(155)	11000(1256)	ESLAM 1406 laminated with insulation fabric



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