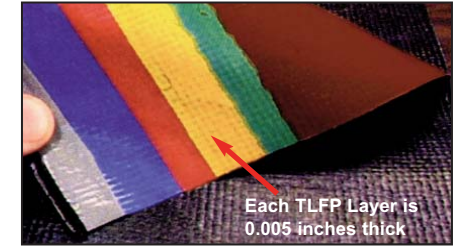


Thorburn's M12 PTFE Coated Fibre Fabric Belt comes with multi-directional, non-porous, zero porosity, PTFE corrosion barrier



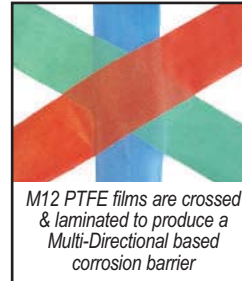
The TLFP laminated films in the above picture have been given a different color to emphasize Thorburn's M12 multi-directional layering of the TLFP corrosion barrier.

## TYPE M12 GAS SEAL MEMBRANE for Extremely Corrosive Wet Flue Gas Service

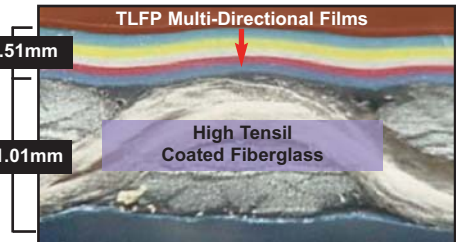
### Material Specification

**Thorburn M12 is thermally stable up to a MCOT of 600°F (315°C)**

Thorburn's M12 composite flexible membrane is designed to withstand a maximum continuous operating temperature (MCOT) of 600°F (315°C), without additional cavity insulation. Inferior designs make the belt dependent upon the cavity insulation for their survival at higher temperatures. Thorburn's M12 has been thermally tested according to ASTM C-411 to 600°F (315°C).



M12 PTFE films are crossed & laminated to produce a Multi-Directional based corrosion barrier



M12 TLFP laminated multi-directional films form a corrosion barrier which is anchored to the coated fiberglass reinforcement (shown above). The M12's high tensile fiberglass coated with a 35-45% PTFE resin content. The high resin content allows the M12 to withstand the most demanding flu gas applications.

### Thorburn's M12 GSM is "The Ultimate in Corrosion Resistance"

Thorburn's M12 incorporates our proven TLFP™ multi-directional corrosion liner. This breakthrough technology permits the anchoring of a thick 100% PTFE, chemically inert, multi-directional corrosion barrier to the load bearing PTFE coated fiberglass fabric. The TLFP is non-porous, has zero porosity which combines to provide the ultimate in corrosion resistance while maintaining a "crackfree" flexible surface. Engineers all around the world are specifying with confidence, Thorburn's M12 GSM to contain the most challenging corrosive media.

### Permeability

M12 GSM is non-porous and offers zero porosity to pressurized gasses.

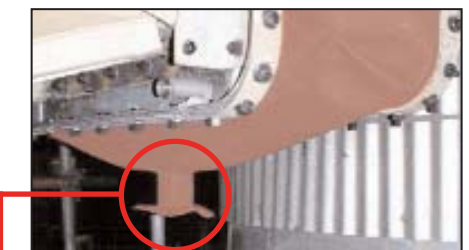
### Tensile & Flex/Fold Test

Meets the breaking strength test as per ASTM D-751; Flex/fold test in accordance with ASTM D2176 with a maximum 30 flex-fold cycles.

## Thorburn's M12 Design Specifications

Thorburn's M12 PTFE Coated Fibreglass Fabric c/w PTFE Films Laminated to 1 side

Temperature (MCOT):	600°F (315°C)
Minimum Thickness:	0.06" (1.52 mm)
Tensile Strength-Warp : As per ASTM D-751	1200 lbs/in (5338N/25.4 mm)
Tensile Strength-Fill: As per ASTM D-751	1200 lbs/in (5338N/25.4 mm) *Tensile strength of 1" (25.4 mm) sample
Chemical Barrier:	Multi-Directional PTFE
Chemical Barrier Thickness:	0.02" (0.51mm)
Chemical Resin Barrier Weight:	32 oz/yd <sup>2</sup> (1085 g/m <sup>2</sup> )
Coating :	PTFE
PTFE Resin Coating:	18 oz/yd <sup>2</sup> (610 g/m <sup>2</sup> )
Chemical Resistance:	Excellent
Overall Weight :	79 oz/yd <sup>2</sup> (2679 g/m <sup>2</sup> )
Other:	Corrosive Wet Service



Thorburn Integral Flexi-Duct drainage system was specifically designed to provide a solution for heavy moister laden expansion joints that periodically require drainage

