

# BOOTFLEX™ GAS SEAL MEMBRANE

## Corrosion-Resistant Perfluoroplastic GSM Material TLFP



### Thorburn's BootFlex™

Thorburn's Bootflex™ is a strong laminated seal that encapsulates a rugged helical, high tensile stainless steel spring coil which joins together two PTFE multi-directional flame retardant linings. With its TLFP/PTFE materials, Thorburn's Bootflex™ is used on applications which require a high degree of inflammability and corrosion resistance. When exposed to an open flame, the product will not support combustion and produces very little smoke. Thorburn's high quality Bootflex™ is accepted as meeting Factory Mutual Test 4910, the test standard for evaluating flame, smoke and corrosion parameters of clean room materials. Thorburn's Bootflex™ PTFE multi-directional lining is impervious to most chemicals.



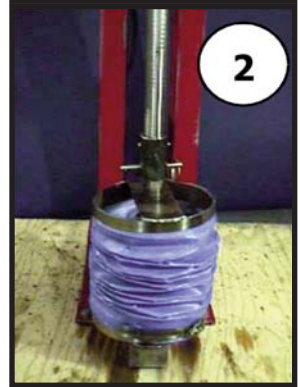
Thorburn's BootFlex™ gas seal membrane consists solely of PTFE resins and is therefore chemically inert and completely unaffected by hydrofluoric gases, making BootFlex™ an ideal Flex connector in a potline exhaust ducting system.

### Thorburn's BootFlex™ Features

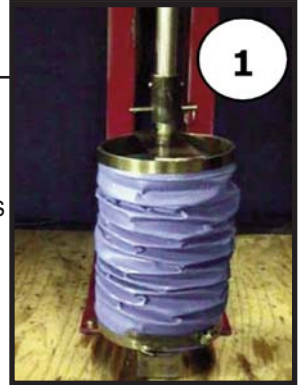
- Superior chemical resistance
- High temperature and mechanical strength
- Large amount of axial and lateral movements
- Exceptional corrosion barrier
- Stand alone temperature of -73°C to 315°C. Higher temperatures are attainable with added internal insulation.
- Pressure ± 1300mm (50") H<sub>2</sub>O
- Non-Flammable
- Sizes range from 25mm (1") to 760mm (30")
- Flame retardant



1



2



1

### flex Testing

150mm ID X 300mm  
duct compressed @  
70 cycles/min



A typical application for BootFlex™ is found in a Heat Recovery Steam Generation (HRSG) Boiler as a penetration seal. BootFlex™ is an ideal replacement for metallic bellows expansion joints because of the large movement requirements which limit the cycle life of metallic expansion joints.

## Thorburn's BootFlex™ Specifications

Overall Weight :	984 g/m <sup>2</sup>
Thickness:	0.51 mm
Tensile Strength:	778 N/50mm
Tear Strength:	295N
MCOT:	315°C
GSM:	2 Ply TLFP
Helical Wire:	High Tensile SS (also available in other alloys and in PTFE)