# Fabric Expansion Joint (Belt)

**Product Features**

1.**High Temp Resistance:** Up to 1000 ºC

2.**Vibration Isolation:** Excellent resonance damping

3.**Multi-Directional:** Absorbs movements in multiple directions

4.**Easy Installation:** Simplified fabrication and setup

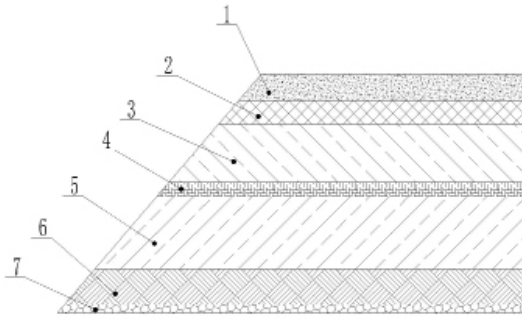
5.**Stress Prevention:** Reactive stress prevention for duct systems

## Product Introduction

Devel® expansion joints are engineered using Fluorelastomer or Fluoroplastic materials, reinforced with metallic wire mesh. Designed specifically for high-concentration condensed fluids and aggressive chemical environments, offering density and durability.

## Product Structure

| No. | Description | Material |
|---|---|---|
| 1 | First layer | 24-mesh 304 stainless steel wire mesh + fluororubber |
| 2 | Second layer | Composite alkali-free cloth |
| 3 | Third layer | PTFE diaphragm |
| 4 | Fourth layer | Wire-reinforced fiber cloth (embedded with 24-mesh 304 stainless steel wire) |
| 5 | Fifth layer | Fiberglass cloth |
| 6 | Sixth layer | PTFE diaphragm |
| 7 | Seventh layer | Fluororubber |




## Application Fields & Technical Parameters

Our fabric expansion joints are widely used across various industries where high temperatures, vibrations, and corrosive gases are present:

•Power Generation:
- Flue Gas Desulfurization (FGD) systems.
- Boiler exhaust ducts and chimneys.
- Gas turbine intake and exhaust.

•Metallurgy & Steel:
- Blast furnace gas piping.
- Sintering plant dust extraction.
- Coke oven gas systems.

•Cement & Building Materials:
- Kiln inlet and outlet seals.
- Clinker cooler systems and preheaters.

•Petrochemical & Chemical:
- Corrosive gas transport lines.
- Incineration facilities and flare systems.

•Environmental Protection:
- Waste-to-energy plant exhaust cleaning.
- Industrial air filtration and ventilation.

| Parameter Items | Specification / Value |
|---|---|
| Max. Operating Temperature | Up to 1000 °C |
| Working Pressure | ≤ 0.5 MPa (Low pressure gas/flue duct) |
| Applicable Media | Hot air, flue gas, corrosive gas, dust-laden air |
| Axial Compensation | ± 50 mm to ± 300 mm (Customizable) |
| Lateral Compensation | ± 30 mm to ± 150 mm |
| Product Thickness | 8 mm - 20 mm (Depending on layers) |
| Standard Flange Size | DN100 - DN5000 / Rectangular custom size |
| Chemical Resistance | Excellent (Acid, Alkali, and Oil resistance) |
| Tensile Strength | ≥ 2000 N / 50mm |



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