

BUNDLETEC® HIGH PERFORMANCE ENGINEERING

ArminTec™ Fabric Expansion Joint

Armored multi-layer fabric expansion joint engineered for severe particulate erosion and heavy mechanical wear.

TEMPERATURE RANGE
-30°C / +550°C

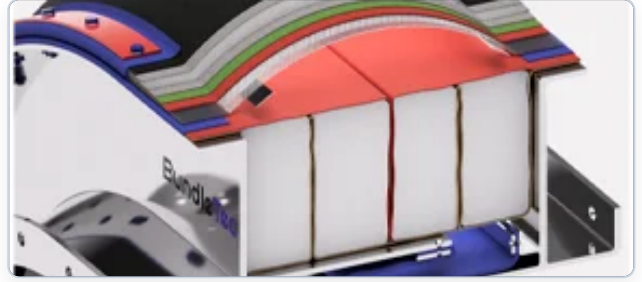
DESIGN PRESSURE
±15,000 Pa (±150 mbar)

MOVEMENTS
Axial ±70mm

ATTENUATION
14 -

MAX GAS VELOCITY
< 40 m/s (with liner)

HELIUM LEAK RATE
 $Q \leq 1 \times 10^{-3}$



Certified Factory Assembly & Inspection

1 MULTI-LAYER COMPOSITE MATERIAL ARCHITECTURE

LAYER 1: EXTERIOR HEAVY SHELL

Abrasion-resistant aramid-reinforced silicone/PU composite exterior shield

LAYER 2: HIGH-DENSITY CUSHION

Mechanically resilient bio-soluble ceramic blanket and glass fiber composite

LAYER 3: GAS SEALING MEMBRANE

High tensile strength multi-ply virgin PTFE barrier foil

LAYER 4: INNER ARMORED SCRIM

SS wire reinforced heat textile + internal flow sleeve deflector baffle

2 TECHNICAL SPECIFICATIONS & DESIGN MATRIX

TECHNICAL PARAMETER	ENGINEERING SPECIFICATION & MATERIAL DEFINITION
Operating Temperature	-30°C to +550°C (-22°F to +1022°F)
Design Pressure	±15,000 Pa (±150 mbar erosion proof)
Authority Standards	RAL-GZ 719 Group 4 / FSA-DSJ / CE
Particulate Velocity	Tolerates abrasive dust velocities up to 35 m/s
Internal Baffle Plate	Hardox 400 / AISI 304 Telescopic Flow Deflector
Frame & Backing Bars	St 52.3 / AISI 304 / 16Mo3 Heat Resistant Steel

3 INDUSTRIAL APPLICATIONS & QUALITY ASSURANCE

- Cement plant cyclones, calciner & raw mill ducting
- Coal-fired thermal power boiler fly ash handling
- Steel mill sintering, dust scrubbing & blast furnace ducts
- Mining, alumina & limestone bulk handling ductwork

INTERNATIONAL STANDARD COMPLIANCE

All BundleTec compensators are engineered referencing RAL-GZ 719 technical recommendations and FSA-DSJ guidelines with certified helium leak tightness and DIN EN ISO 13934-1 tensile compliance.

RAL-GZ 719

FSA-DSJ

ISO 9001:2015

CE

ATEX 2014/34/EU

BUNDLETEC MANUFACTURING FACILITIES

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