



Q-Chem Expansion Joints, Fabric Bellows



General

Insulcon's fast growing Wearflex® division offers a wide range of **high temperature** resistant, flexible and durable quality products. The Wearflex® division develops Wearflex® Fabric Expansion Joints according to customers' specification, applicable in various industries.

Wearflex® Fabric Expansion Joints

Fabric Expansion Joints are flexible connections in air, flue gas pipe and duct systems found in all kind of industries. The main job of Expansion Joints is to compensate thermal expansion, vibration and misalignments.

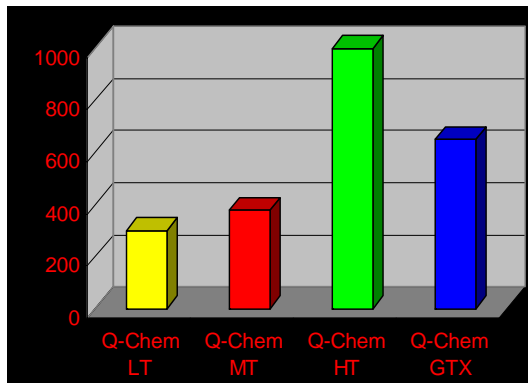
Wearflex® division produces 2 types of Expansion Joints, Q-Chem and Q-Flex.

Q-Chem expansion Joints are specially designed for applications in which resistance against wet flue gasses and a high acid content are critical.

Q-Chem Expansion Joints are produced through the process of heat-sealing. The special shape of Q-Chem Expansion Joints is obtained by sealing special shaped reinforcements into the base material. In this way a 100% gas tight Expansion Joint is achieved.

Q-Chem Expansion Joints are:

- Specially designed for applications with wet flue gas and high acid circumstances
- Produced through the process of heat-sealing (pressing)
- Laminated composite inlet layers in the bellow and loose inlet layers in the insulation cover
- Made out of non-porous material
- Gas tight
- Applicable up to 540°C

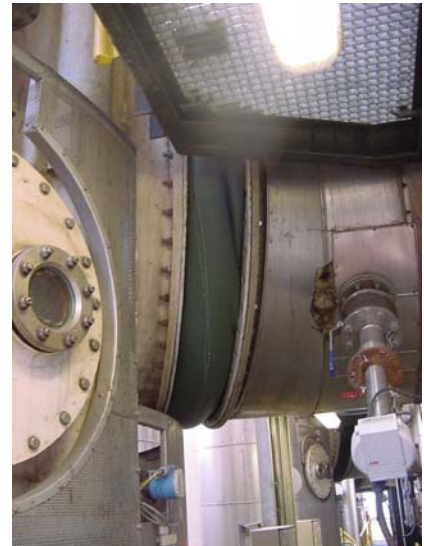


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For the production of Q-Chem Expansion Joints different types of materials are being used.

Materials

- **Insulfoil** is a 100% Teflon resin sheeting, available in a variety of thicknesses. This resin has an exceptional 360° tear strength, provides excellent chemical resistance, maximum flex resistance and has a rugged construction. All these features beat those of conventional materials. Insulfoil is manufactured out of a cross pattern lamination process containing PTFE-film.
- **Insultex** can be used in applications with an upper use continuous operating temperature up to 316°C (601°F). 0.18 mm of Insulfoil corrosion barrier is laminated to a coated glasscloth. By laminating the coated glass cloth, the material becomes nonporous and can therefore be applied in wet and dry applications. Insultex material is the base of the Wearflex Q-Chem LT Expansion Joint.
- **Thinsultex** is a high temperature expansion joint material designed for applications with an upper use continuous operating temperature up to 538°C (1000°F). A 3-mm, woven fibreglass or a 12.7-mm, non-woven insulation mat is laminated to an Insultex composite. This limits the penetration of the flue gas into the insulation, which extends the life-time of the insulation layer. Thinsultex is the base of the Wearflex Q-Chem MT and the Wearflex® Q-Chem HT Expansion Joints.



For more detailed information about these products, please do not hesitate to contact one of our specialists.

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