

Flexam FR belts for Mineral Wool Industry



Ammeraal Beltech is a leading manufacturer of process and conveyor belting with an established reputation for developing innovative solutions for belting applications.



Mineral wool is used for thermal insulation and soundproofing. It is produced from fibres formed from basalt stones and dolomite heated to temperatures up to 1650°C.

The hot material cools down and falls on the conveyor belt. The primary felt is formed. But, from time to time, some incandescent molten stone or sand particles still fall on the belt, leaving marks or holes on it.

The primary felt is then sprayed with a phenolic, acrylic, or ecological resin binder, which will polymerize as it passes through the air oven to give the final product the desired shape and density.

However, this binder sometimes causes shrinkage in the fabric of the belts, causing their misalignment and subsequent breakage due to lateral friction.

We understand the challenges of this process and that is why we designed **Flexam FR belts**.

Main features

- Flame Retardant (ISO340)
- Anti-static
- Dimensionally stable
- Extra laterally stable
- Non-stick surface
- Good chemical resistance

Benefits

- People Safety Concept
- Longer belt life
- Reduced maintenance costs
- Low energy consumption

Typical application

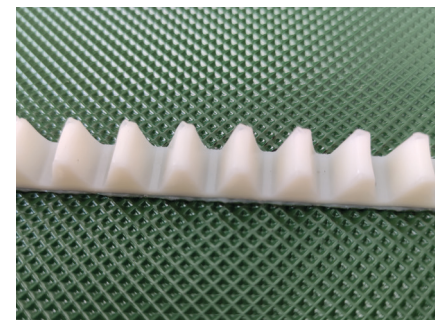
- Pendulum Conveyors
- Hot End Area Belts

Innovation & Service in Belting

One of the main peculiarities of the belts that work in the Hot End area is that their length or distance between the center of the rollers is very often lesser than their width. In belting jargon, they are called 'square belts'. These belts are usually difficult to center and maintain in their working position, since on many occasions the rollers on which they are driven are completely cylindrical without taper.

Ammeraal Beltech has developed the most suitable guiding systems to eliminate misalignment and guarantee extraordinary performance by avoiding lateral displacement and breakage due to lateral friction of the belts. For belts with widths greater than 3100 mm, we make a centered longitudinal splice following a precise manufacturing process and obtaining a perfect result.

Contrary to popular belief, sometimes the presence of a longitudinal joint can favor the centering of the belts, especially when they work on 'square conveyors'. Thanks to the longitudinal splices, we can meet width requests of up to 5 meters while maintaining the same original characteristics of the belt.



Amtel guide profiles help maintain belt alignment

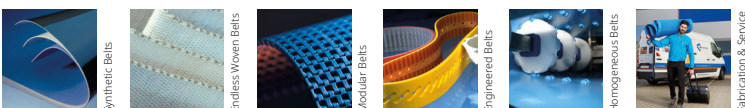
Technical data

| Item | Description | N. of plies | Thickness [mm] | Weight [kg/m ²] | Force elongation at 1% [N/mm] | Maximum Width (mm) | Flexing / Back flexing diameter [mm] |
|--------|--|-------------|----------------|-----------------------------|-------------------------------|--------------------|--------------------------------------|
| 570241 | Flexam EM05 8/2 A18+05 green M2 AS FR NL | 2 | 3.45 | 3.2 | 8.0 | 3100 | 50/80 |

M2 = Matt Finish; AS = Anti-static; FR = Flame Retardant; NL = Non Logo



| Fabric types | |
|------------------------|--|
| Knowing your process | Industry and product knowledge are the foundation of an innovative and service-oriented organization |
| All your belting needs | Ammeraal Beltech developed a wide range of belting solutions and accessories to assist the mineral wool producers |
| Just-in-time delivery | Worldwide distribution and large service network; skilled personnel are on call to repair and install belts keeping business operations running smoothly |



Expert advice and quality solutions for all your belting needs.
 ammeraalbeltech.com

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