

Fiberglass Mat Production

GKD Process belts for impregnation section

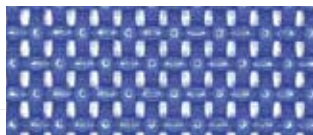


Application Impregnation of binder into fiberglass-mat during production process

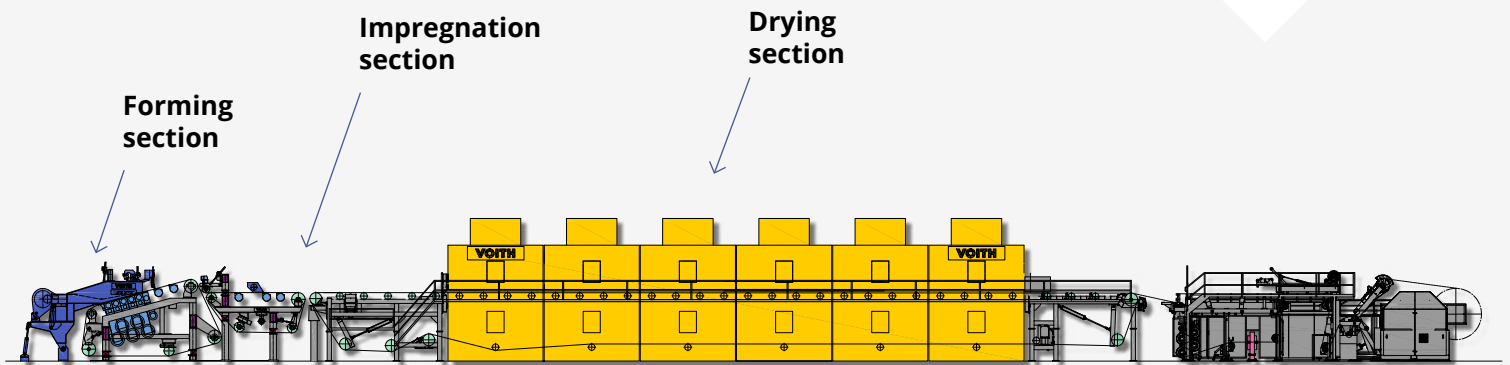
Benefit Selection of woven mesh types depending to fiberglass specification

Solution GKD Process Belts made of Polyester

Glass fibers are produced to different specifications in order to meet the requirements of different industries for products such as roof shingles, flooring, and many other technical applications. The glass fibers often differ greatly in terms of fiber length and thickness, depending on the product properties required. The interaction between the aperture size and the open area of the process belt is important here. Both fiber entanglement and fiber loss

must be avoided. At the same time, good dewatering performance is required from the binder/impregnation medium, the viscosity of which can vary greatly depending on its composition. In order to match the process requirements, GKD – Gebr. Kufferath AG offers a selection of different process belts which can be selected together with the customer on the basis of their fiber and binder specifications.

| | GKD mesh types | | |
|----------------|---|--|---|
| | 40561780 | 40561830 | 40561865 |
| Mesh count | 8/6.1 per cm | 9.2/7.5 per cm | 11/9 per cm |
| Warp diameter | 0.70 mm | 0.65 mm | 0.50 mm |
| Weft diameter | 0.80 mm | 0.65 mm | 0.50 mm |
| CFM value | 560 cfm | 500 cfm | 740 cfm |
| Open area | 16% | 15% | 21% |
| Warp aperture | 0.50 mm | 0.35 mm | 0.39 mm |
| Weft aperture | 0.76 mm | 0.65 mm | 0.58 mm |
| Mesh thickness | 1.58 mm | 1.32 mm | 1.00 mm |
| Seam design | Endless woven seam | Endless woven seam | Endless woven seam |
| Mesh photo |  |  |  |



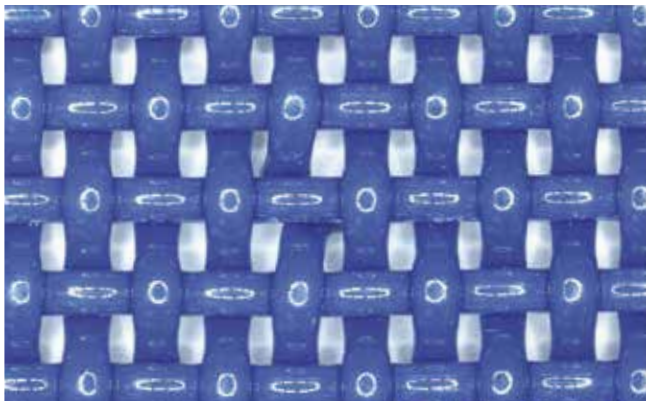
The selection of the process belt specification has a significant influence on the smoothness of the production process. The mesh aperture, number of carrying points per unit area, and mesh structure affect the structure of the end product.

The process of fiberglass mat production is complicated by the ever-increasing number of variants in binder

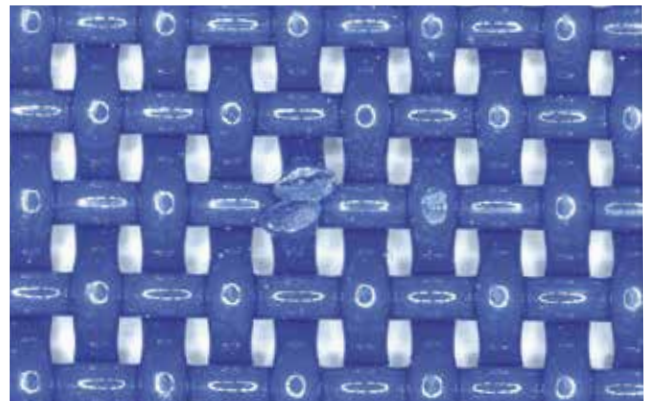
compositions with widely differing properties. High viscosity, for example, leads to poorer dewatering performance of the binder on the impregnation section.

GKD PROCESS BELTS for the fiberglass impregnation section are produced with a non-marking endless woven seam for cantilever installation.

Endless woven seam



Upper side



Lower side

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