



Filter media – selecting the right needle

Groz-Beckert – Partner to the filter industry

To produce needled filtration media, needles with different barbs and working parts should be used depending on the intended application. In keeping with the requirements of customers from the filtration industry and adapted to the properties specified for the final product, a range of different needle types are available for selection from the Groz-Beckert portfolio of felting needles.

Benefits:

- Cost-efficient production
- Process stability
- Longer service life
- Optimum surface quality of the end product
- Improved tear strength
- Efficient needling

Depending on the end application, different product characteristics are required by filter felt manufacturers. This is reflected in the choice of plant system configuration. The configurations described on the back are only examples and can vary from one product to the next.

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Filter hose

Selection and properties of felting needles

RF barb – cost efficiency

Pre-needling 15x18x38x3 1/2 R222 G 3067 (615231)	Intermediate needling 15x18x40x3 R222 G 3037 (603721)	Intermediate needling 15x18x40x3 C222 G 3037 (609901)	Finish needling 15x18x42x3 R111 G 3017 (610791)
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The use of RF barbs ensures a high level of process stability for the complete needling process without escalating costs.

GEBECON®/chrome-plated felting needles – process stability/longer service life

Pre-needling 15x32x40x3 1/2 R222 G 530P7 (606211)	Intermediate needling 15x18x40x3 R222 G 3137 (617041)	Intermediate needling 15x18x40x3 C222 G 3137 (616811)	Finish needling 15x18x42x3 R111 G 3117 (676381)
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GEBECON® felting needles used for pre-needling offer the perfect combination of good surface properties in the end product and optimum bending strength. Chrome-plated felting needles used for the following needle processes guarantee an extended service life and therefore consistently uniform needling results over their entire application period.

EcoStar® – high surface quality

Pre-needling 15x34x42x3 1/2 R222 G 530P7 (606521)	Intermediate needling 15x18x40x3 R222 G 3037 E (674051)	Finish needling 15x18x42x3 R111 G 3017 E (621671)
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GEBECON® felting needles used for pre-needling offer the perfect combination of good surface properties in the end product and optimum bending strength. The use of EcoStar® felting needles for intermediate and finish needling results in the best possible surface quality.

Teardrop shaped working part/HL barbs – high tensile strength

Pre-needling 15x18x38x3 1/2 FBD8 G 62017 (606161)	Intermediate needling 15x18x38x3 FAA8 G 62017 (616181)	Finish needling 15x18x40x3 FAA6 G 62017 (616661)
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Felting needles with a teardrop shaped working part cross-section and HL barbs over the whole needling effect enable products to be manufactured causing minimal stress to the fibers and low damage to the support fabric.

Twisted – efficiency

Pre-needling 15x18x38x3 1/2 R222 G 3067 (615231)	Intermediate needling 15x18x40x3 R222 G 3037 T (673451)	Finish needling 15x18x42x3 R222 G 3027 T (621711)
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The twisted working part of a Twisted felting needle ensures greater barb definition in application. The result: more efficient intermediate and finish needling and consequently capacity for higher production speeds.

GEBECON®/GEBEDUR® II – process stability/longer service life

Pre-needling 15x30x38x3 1/2 R222 G 534P7 (621681)	Intermediate needling 15x18x38x3 C222 G 3437 (621691)	Finish needling 15x18x38x3 M222 G 3447 (621701)
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GEBECON® felting needles used for pre-needling offer the perfect combination of good surface properties in the end product and optimum bending strength. Treating the felting needles with GEBEDUR® II over the complete needling process guarantees an extended service life and consequently a uniform needling effect for the whole application period.

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