



# GEBECON™ felting needle

GEBECON™ felting needles from Groz-Beckert offer the perfect combination of good surface properties in the end product and optimum bending strength.

## Characteristics and special features:

- Conical working part and continuous conical section from the point to the shank
- Graduated barb sizes per edge: the closer to the tip, the smaller the barb
- Reduced number of barbs
- Lower working part and taper angle compared to the standard conical felting needle

## Benefits:

- More even bending strength coupled with high flexibility, resulting in improved stability (fewer needle breakages) compared to standard felting needles, and higher production speeds with reduced warping tendency compared to conical felting needles
- Reduced penetration force at the start helps improve needle guidance, reduce deflection, and prevent needle breakage
- Reduced load due to less barbs, and improved bending characteristics, resulting in reduced needle breakage in the upper working part of the needle
- Improvement of the surface quality (smaller needling holes in the end product) compared to conical felting needles, and reduction of the machine load due to lower penetration forces
- Improved resistance to buildup and clogging of felting needle barbs, needle boards, bed plates and stripper plates when needling waste fibers



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## Fields of application:

- Pre-needling across all segments where stringent demands are made on product quality (surface) and needle quality (breakage/bending), such as automotive industry, synthetic leather, geotextiles, filtration felts and other types of technical felt
- Needling of fine, ultra-fine, micro and special fibers



Bitumen-coated roofing felt



Car seats (Alcantara)



Protective clothing (Kevlar)



Insulating materials for cars



## Working part comparison

The three photos below illustrate the differences between the standard, GEBECON™ and standard conical working part. The best possible surface quality of the end product is achieved by the parallel working part of the standard felting needle. The greatest stability against needle breakage and deflection is guaranteed by the standard conical felting needle. The GEBECON™ variant provides a “happy medium” with a good product surface and adequate stability.



Standard felting needle with slim parallel working part



GEBECON™ felting needle with working part and reduced shank in a slim, conical design



Standard conical felting needle with stable conical working part

## Availability

Gauges: 25–43 Gauge

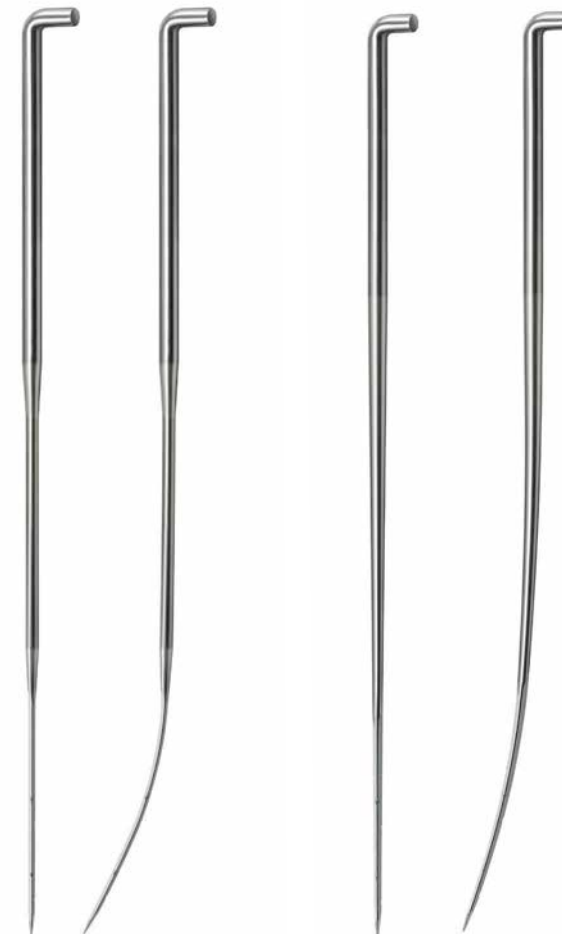
Needle lengths: 3", 3,5"

Barb shapes: RF, HL

Other gauges, barb shapes and needle lengths on request.

## Deflection in comparison

When the standard felting needle is highly deflected, a weak point emerges in the area of the transition between the working part and the reduced shaft. The GEBECON™ felting needle, in contrast, demonstrates more even deflection without a recognizable weak point.



Standard felting needle

GEBECON™ felting needle