



## Special application needles SAN® 10 and SAN® 10 XS

Sewing machine needles which are gentle on the material, for ultrafine knit and woven fabrics

# GROZ-BECKERT®

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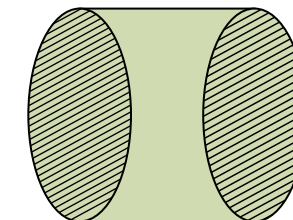
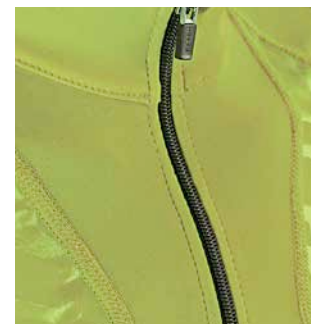
### Special application needle SAN® 10: optimal for high quality at a high output

The advantages at a glance:

- Higher seam quality, yet gentle on the material
- Processing of the most delicate materials
- Ability to use thicker threads with the same needle thickness (large eye)
- Increased productivity

Groz-Beckert recommends this product for:

- Sewing fabric which is easily damaged, special fine knit fabrics
- Delicate sewing fabric which can only be processed at reduced speeds and with very thin needles
- Processing of textured yarns and elastic yarns
- The use of multi-needle machines



SAN® 10  
Displacement cross-section



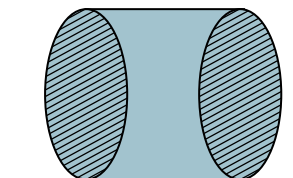
### Special application needle SAN® 10 XS: optimal for ultrafine and special materials

The additional advantages at a glance:

- Maximum protection of the material
- Smallest possible needle holes
- Processing of extremely delicate materials

Groz-Beckert recommends this product for:

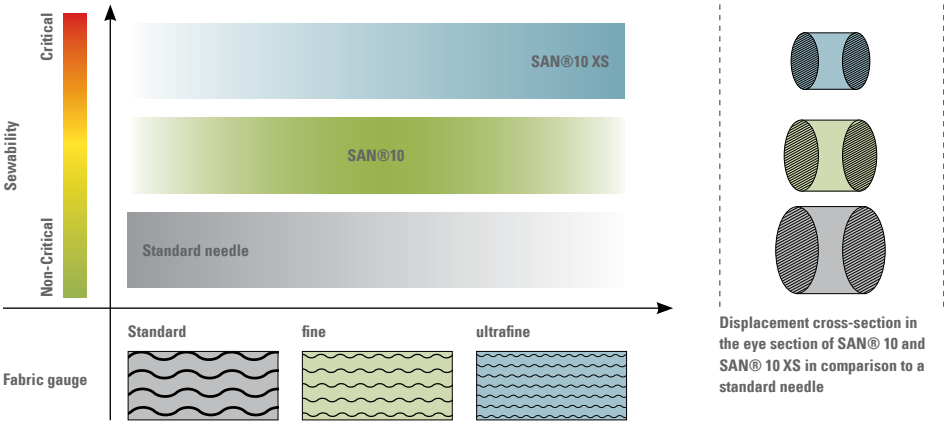
- Sewing fabric which is extremely susceptible to damage, special fine and ultrafine knit and woven fabrics
- Extremely delicate sewing fabric which can only be processed at reduced speeds and with the thinnest of needles
- Sewing fabric with a tendency to develop large needle holes



SAN® 10 XS  
Displacement cross-section

**Selection guide for SAN® 10 and SAN® 10 XS**

The sewability is affected by the: equipment, fabric quality, room climate and material fineness



**Definition of fine and ultrafine fabric qualities**

The fineness (E) of knit fabrics indicates the mesh count (number of needles) per inch. The term thread count is used for woven fabrics. This indicates how many warp and weft threads are used per inch.

	Knit fabric – weft knitting	Knit fabric – warp knitting	Woven fabrics
	<b>Knit fabric – weft knitting</b>	<b>Knit fabric – warp knitting</b>	<b>Woven fabrics</b>
	<b>Fineness (E)</b>	<b>Fineness (E)</b>	<b>Thread count: Warp/weft per inch</b>
<b>Standard</b>	18–24	22–28	30–50
<b>fine</b>	28–42	30–40	100–200
<b>ultrafine</b>	44–90	40–50	200–300

**SAN® 10 and SAN® 10 XS in the production program**

Needle system	Size range						
	55	60	65	70	75	80	90
DBx1 SAN® 10/1738SAN® 10 FFG	•	•	•	•	•	•	
DBx1 SAN® 10/1738 SAN® 10 R	•	•	•				
DBx1 SAN® 10 XS FFG		•	•	•			
B27 SAN® 10/81x1 SAN® 10 FFG	•	•	•	•	•	•	
B27 SAN® 10 FG		•			•		
B27 SAN® 10 XS FFG		•	•	•			
62x57 SAN® 10 FFG				•		•	
B63 SAN® 10 FFG	•	•	•	•	•	•	•
B63 SAN® 10/DVx63 SAN® 10 FG				•			

Needle system	Size range						
	55	60	65	70	75	80	
UY 118 SAN® 10 FFG		•	•	•	•	•	
UY 128 SAN® 10 FFG	•	•	•	•	•	•	
UY 128 SAN® 10 FG		•	•		•		
UY 128 SAN 10 RG	•						
UY 128 SAN® 10 XS FFG		•	•	•			
UY 128 KK SAN® 10 FFG			•	•			
134 SAN® 10/DPx5 SAN® 10 R	•						
134 SAN® 10/DPx5 SAN® 10 FFG	•	•	•	•	•	•	
134 SAN® 10/DPx5 SAN® 10 SKL			•	•	•		
134 SAN® 10 XS FFG		•	•	•			
134-35 SAN® 10 FFG			•	•	•		
751 SAN® 10 FFG		•					
MY 1014H SAN® 10 FFG			•	•	•		