

KOBLEDER[®] **NCK**
Non Crimp Knit

kobleder[®]

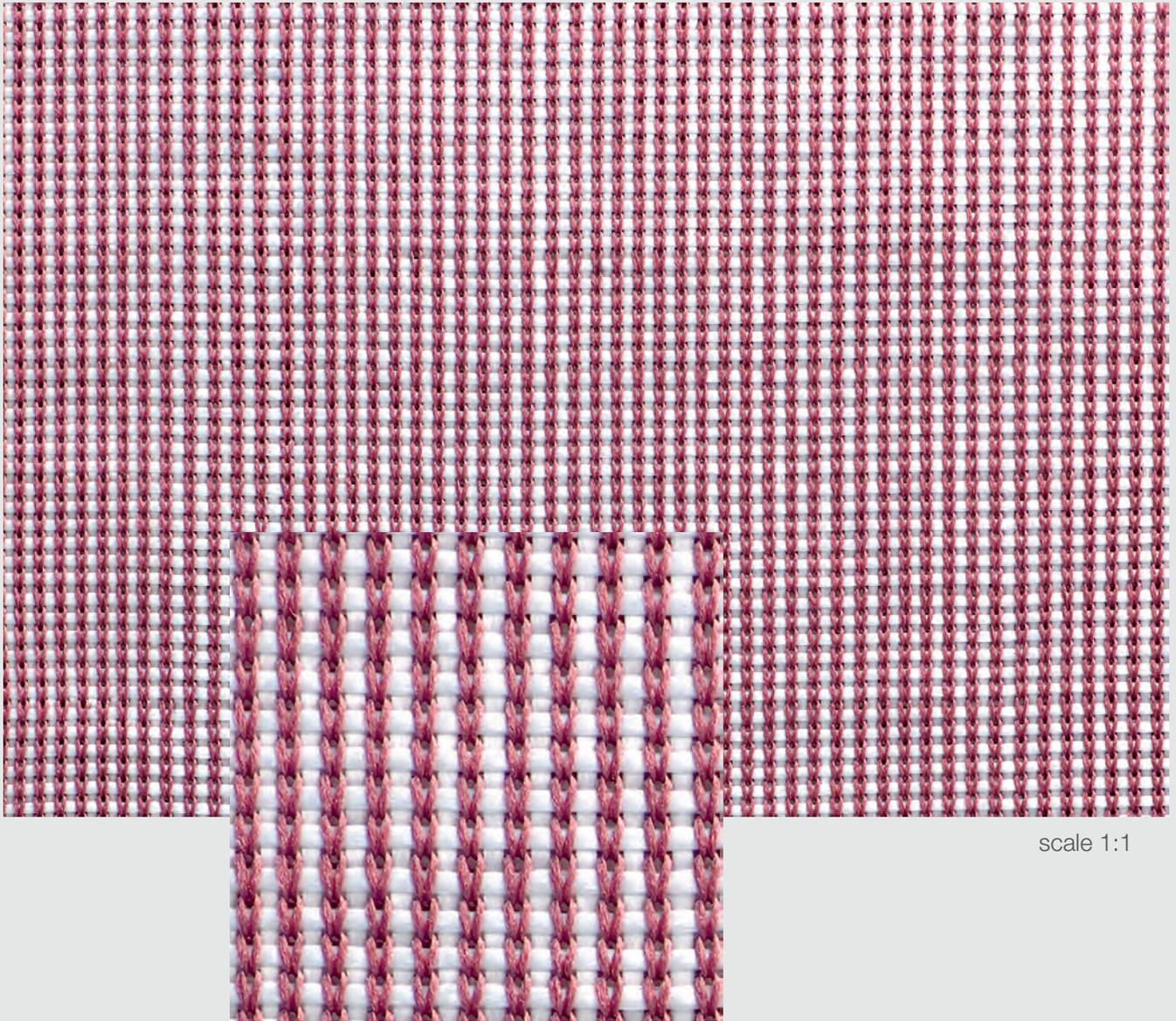
Kobleder Non Crimp Knit

Kobleder has developed non crimp knit (NCK) with integrated reinforcing fibers, which can absorb maximum mechanical tensile forces. The straight reinforcement threads knitted in 0° and 90° direction are held in place by loops so that no damage is caused to the reinforcement fibers. This construction guarantees a high level of drapeability at nearly 100% utilization of the reinforcing fiber strength. In addition to high tensile strength, these knitted fabrics also feature very good impact behavior.



NCK with biaxial reinforcement are currently available as continuous plain fabrics in widths up to 900 mm and in tube form with a diameter of 200 mm. The reinforcement materials can be varied in type and dimension according to customer requirements and can even be somewhat customized within their construction. In addition to glass as a reinforcing yarn, carbon, aramid or basalt are also available. Polyester, polypropylene and polyamide can be selected for the stitch yarn material. Kobleder's NCK knitting technology ensures high production efficiency at nearly 100% material utilization.

KOBLEDER **NCK** - Details



scale 1:1

 scale 2:1

specification NCK flat:

square weight: [g/m²] 300 - 850

count of 0°+ 90° reinforcing thread: [tex] 350 - 900

material of 0°+ 90° reinforcing thread: GF / AR / C / BF

stitch yarn count: [tex] 30 - 150

stitch yarn material: PES / PP / PA / GF / AR

specification NCK tubular:

square weight: [g/m²] 300 - 400

count of 0°+ 90° reinforcing thread: [tex] 350 - 600

material of 0°+ 90° reinforcing thread: GF / AR / C / BF

stitch yarn count: [tex] 30 - 80

stitch yarn material: PES / PP / PA / GF / AR

KOBLEDER **NCK** - 3 Arguments in comparison

Woven fabric (plain weave)



Reinforcement threads are crimped

Stitch bonded fabric (biaxial)



Damaged fibers – punctured reinforcement threads

KOBLEDER **NCK**



100% straight reinforcement threads

No fiber damage

Highest drapeability

KOBLEDER **NCK** - Drape of NCK flat



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