

HEBERLEIN® KF JET INSERT.

KNOT FREE AIR INTERLACING FOR TEXTURING.

—
ENTANGLEMENT WITHOUT VISIBLE INTERLACE KNOTS.

The Heberlein KF Jet Insert provides the optimum solution for knot free entanglement of DTY yarns. The yarn bundle is compacted but shows no visible interlace knots as such no imperfections are visible in the fabric.

Knot Free Air Interlacing

The individual filaments are intermingled with a stream of compressed air lightly compacting them. This removes the need for any visible knots in the fabric. The technique is used in the interlacing of filament yarns made of polyester.



Features and Benefits

- ▶ Ultra gentle treatment of the yarn, especially suited for micro filament and polyester yarns
- ▶ Unique air flow enables filaments to be compacted providing excellent package unwinding
- ▶ Leaves no visible imperfections in the fabric
- ▶ Modern Carbon Fibre Reinforced housing provides excellent product life and handling
- ▶ Push button system to remove the jet core
- ▶ Cost effective
- ▶ High Quality ceramic parts
- ▶ Simple maintenance

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HEBERLEIN AG

Heberlein® KF Jet Insert

Performance characteristics

Jet insert	Count range [dtex] (den = 0.9 dtex)										Air usage [m³/h]¹
KF050	[Red bar from 78 to 130]										$q_{vn} = 0.350 (p_e + 1)$
KF150	[Red bar from 120 to 240]										$q_{vn} = 0.488 (p_e + 1)$
KF250	[Red bar from 130 to 360]										$q_{vn} = 0.784 (p_e + 1)$
KF450	[Red bar from 240 to 700]										$q_{vn} = 1.391 (p_e + 1)$

■ Typical range ■ Limits of application [dtex] 78 120 130 220 240 330 360 660 700

¹ Under standard conditions according to DIN 1343:

Temperature = 0 °C, pressure = 1.01325 bar, relative humidity = 0 % (1 standard cubic metre = 1.293 kg, psi = 14.7 x bar, CFM = 0.588 x m³/h)

q_{vn} = air consumption [m³/h]. p_e = pressure above atmospheric [bar]. Formula applies from 0.8 bar. In the case of locations at more than 1 000 m above sea level please ask.

Yarn Characteristics

DTY, PES dtex150/f48, KF150, 2.5 bar, 700 m/min.



Fig. 1: Knot free interlaced yarn

DTY, PES dtex150/f48, P243, 1.2 bar, 700 m/min.



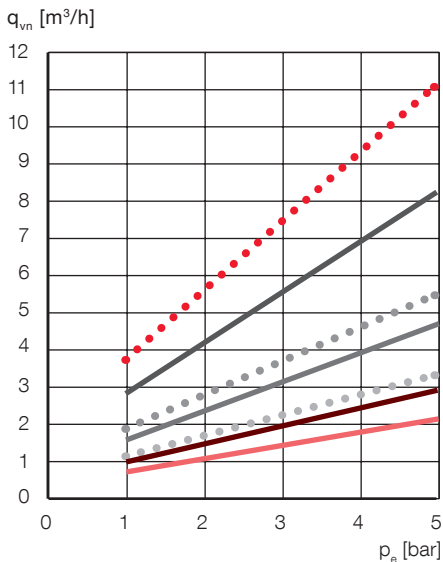
Fig. 2: Interlaced yarn

DTY, PES dtex150/f48, 700 m/min.



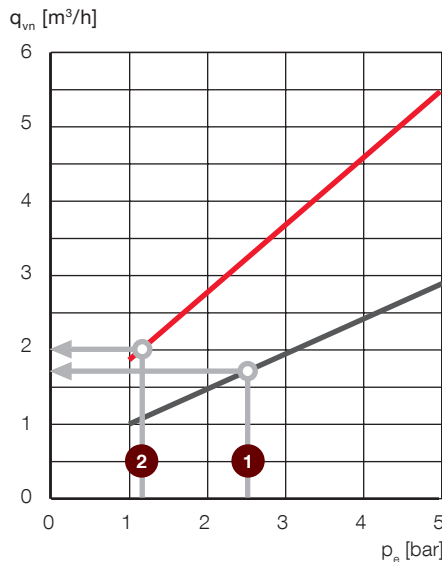
Fig. 3: Yarn without interlace

Comparison of air consumption



- P312-2 / S16 (Interlacing)
- KF450 (Knot free interlacing)
- P212-2 / S12, P243-2 / S3 (Interlacing)
- KF250 (Knot free interlacing)
- P142-2 / S1 (Interlacing)
- KF150 (Knot free interlacing)
- KF050 (Knot free interlacing)

Example of air consumption



- P243-2 / S3
- KF150
- ① Knot free interlaced yarn fig. 1 (see above)
- ② Interlaced yarn fig. 2 (see above)

Compressed air requirements

Air pressure (gauge): max. 10 bar

- Max. residual oil: 0.1 mg/m³ (class 2*)
- Max. residual particles: (class 2*)
 - Particle size 1 µm
 - Particle density 1 mg/m³
- Max. residual water: (class 5*)
 - Residual water 7.732 g/m³
 - Dew point + 7 °C

* According to DIN ISO 8573-1

Compatibility

- Heberlein SlideJet-2*
 - Heberlein SwissJet*
- * Without outlet yarn guide