

HIGH-TECH CERAMICS FOR SUPERIOR YARN QUALITY

Applicator Guides

- Yarn friendly contact geometry prevents filament damage
- Suitable for microfilament yarns
- Low friction surface reduces yarn breakage and production downtime



Precision Lubrication For

Optimized Filament Configuration

The Rauschert applicator guides have been designed to optimize the configuration of the filaments in the lubrication zone, by using yarn-friendly contact geometry. This prevents “bunching” or “overcrowding” of the yarn filament bundle which can result in poor lubricant penetration, but retains sufficient dynamic control of the yarn to encourage even and continuous lubrication of each filament. The problem of dripping is also reduced because the yarn is presented to the lubricant in the most efficient way.

Denier Range and Suitability

A wide denier range can be accommodated and the design is suitable for micro denier yarns and a range of filament counts.

Material and Surface Finishes

Rapal 200 and Rapal 300 are fine grain, high purity alumina ceramics, specially developed for textile applications. The applicators are available in a range of low friction surface finishes, specifically suited to high speed POY or FDY applications. Applicators for higher denier and BCF yarns are available on request.

Customization Options

In addition and to complement its extensive range of standard applicators, Rauschert also offers the flexibility of CNC manufacturing to fabricate applicators with additional features, for example, additional / fewer dimples (1 - 5 dimples), a wider yarn channel (0.5 mm - 4 mm width) or bigger / smaller oil hole (0.5 mm - 6 mm diameter). Applicators can therefore be made according to customers requirements.

How to select the right applicator:

1. Identify your yarn denier range
2. Check multifilament count if applicable
3. Consider your lubrication requirements (oil orifice size)
4. Compare with the corresponding item number in the list

Rapal® 300



Rapal® 300 low friction



Maximum Efficiency

Article	Denier range	Multifilament	Oil orifice
394768 / 0.6	below 100 den		Ø 1.0 mm
394965	below 150 den		Ø 0.55 mm
394951	below 200 den	below 75 - 150 den	Ø 0.6 mm
394768 / 1.0	below 200 den	below 100 den	Ø 1.15 mm
394986	below 300 den		slot 0.5 x 1.9 mm
394768 / 1.7	below 340 den	below 200 den	slot 0.5 x 1.8 mm
394768 / 2.4	below 550 den		slot 1.0 x 2.4 mm
394768 / 3.0	below 1400 den		slot 1.0 x 3.0 mm
394768 / 4.0	below 1800 den		slot 1.0 x 4.0 mm
394768 / 4.5	below 2000 den		slot 1.0 x 4.5 mm
394768 / 6.0	below 3000 den		slot 1.0 x 6.0 mm

Note: Round orifices (Ø) are typically used for lower denier applications, while slot orifices provide better control for higher denier yarns.

394768 / 0.6	394965	394951	394768 / 1.0
394986	394768 / 1.7	394768 / 2.4	394768 / 3.0
394768 / 4.0	394768 / 4.5	394768 / 6.0	

BENEFITS FOR TEXTILE MANUFACTURERS

Productivity improvements

- Reduced yarn breakage leads to fewer production stops
- Consistent lubrication quality reduces downstream processing issues
- Extended applicator life due to superior ceramic materials

Quality enhancement:

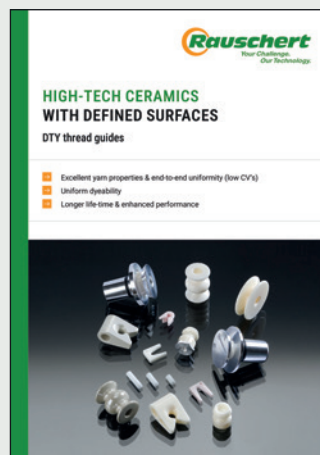
- Uniform filament lubrication improves yarn characteristics
- Reduced contamination from dripping

Cost optimization

- Lower lubricant consumption through efficient application
- Reduced waste from improved process control
- Longer service intervals due to wear-resistant ceramics

COMPLETE TEXTILE CERAMIC SOLUTIONS

Applicator guides are just one part of our comprehensive textile technology portfolio. Discover our full range of ceramic solutions designed to optimize your entire production process:



DO YOU HAVE A CHALLENGE?
YOUR CHALLENGE IS OUR DRIVE – GET IN TOUCH NOW TO FIND A SOLUTION!

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Subject to errors and alterations. The information in this document only contains general descriptions of the technical options available and performance features. We will be pleased to submit you a personal offer.