

# **Oil Applicator Guide with Excellent Surface Properties**

**Higher Yarn Quality and Production Efficiency**

# Newly Designed Surface – Protects Yarn and Increases Service Life

Producing and processing critical filament yarns such as microfilament and supermicrofilament yarns, highly abrasive spun-dyed yarns (spun dyed, black, carbon black) and filament yarns made from additive-containing raw materials (dull, CS, antibacterial) places high demands on production processes, machines and components.

The oil applicator guide is a decisive component in the melt spinning process and it is often subject to extreme wear. Its wear resistance and filament-protective surface ensure long-term, good yarn quality.

## New Oil Applicator Guide with Special Surface Quality

The CeramTec experts for technical advanced ceramics have developed a special ceramic material and surface finish to meet these high demands on performance and wear: IMA87. The ultrapure ceramic powder with a very fine microstructure featuring an average grain size of  $< 3\mu\text{m}$  gives the IMA87 material its very high hardness and extreme resistance to abrasion.

The new oil applicator guide's special finish ensures a very low-friction surface quality to protect the yarn.

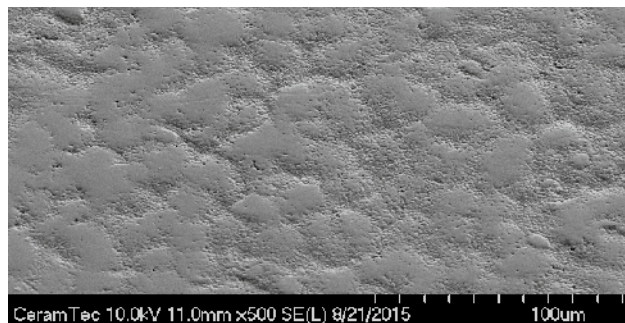
### ADVANTAGES

- Protects yarn, low-friction
- Yarn quality is retained
- More cost-effective
- Longer service life, less machine downtime

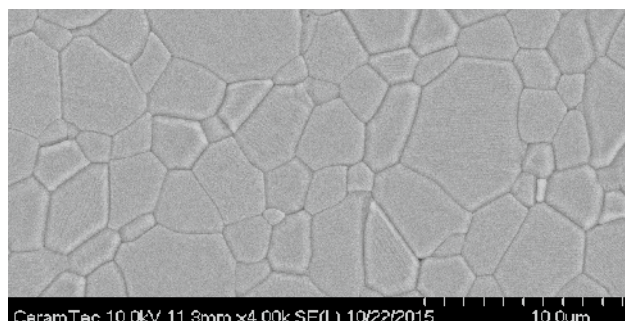
The new CeramTec oil applicator guide with shaft can be deployed on all spinning facilities.

## CeramTec for the Textile Industry

For decades, CeramTec has set the bar for advanced ceramic components in the textile industry. The new IMA87 material used to make the oil applicator guide with the innovative surface structure is the result of over a century of expertise in further developing advanced ceramics and knowledge of the textile industry that has grown over decades.



*Unparalleled surface quality reduces friction*



*Microstructure with an average grain size of  $< 3\mu\text{m}$*

CeramTec offers additional components for the melt spinning process, including thread guides such as pigtails, jet plates and more. The portfolio is enhanced by ceramic discs for the texturing process, technical cutters, eyelets and additional advanced components for the textile industry.



# IMA87<sup>Material</sup>

3.97

Density in g/cm<sup>3</sup>

2.6

Average grain size in  $\mu\text{m}$

1900

Vickers Hardness in MPa





The measured values mentioned before were determined for test samples and are applicable as standard values. The values were determined on the basis of DIN-/DIN-VDE standards and if these were not available, on the basis of CeramTec standards. The values indicated must not be transferred to arbitrary formats, components or parts featuring different surface qualities. They do not constitute a guarantee for certain properties. We expressly reserve the right to make technical changes.

**CeramTec GmbH**  
Mechanical Applications Division  
CeramTec-Platz 1-9  
73207 Plochingen, Germany  
Phone: +49 7153 611 444  
Fax: +49 7153 611 601  
mechanical-applications@ceramtec.de  
www.ceramtec.de