

Corporate Communications

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Press Information

CeramTec: Higher yarn quality with new material IMA87

Oil applicator guides made from advanced ceramics

Plochingen, February 1, 2016 **Yarn-friendly and longer lifetime: IMA87 is a new ceramic material from CeramTec that features an innovative surface structure and excellent physical properties. The material is used in melt spinning in the textile industry: Oil applicator guides made from IMA87 meet the highest demands with regard to abrasion and yarn quality.**

Producing and processing critical filament yarns such as microfilament and supermicrofilament yarns, critical spun-dyed yarns (spun-dyed black and carbon black) and filament yarns made from additive-containing raw materials (deep matt, CS, antibacterial) places high demands on production, machines and components. The oil applicator guide is a decisive component in the melt spinning process subject to extreme wear that features a material specifically designed for this process to increase wear resistance and thus lifetime while also providing a yarn-friendly surface finish that enhances the quality of the yarn.

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Oil applicator guide with special surface quality

The CeramTec experts for technical advanced ceramics developed IMA87, a special ceramic material with innovative surface properties and excellent material characteristics. The new oil applicator guide's special finish ensures a low-friction surface quality to protect the yarn and protect the quality of the textile.

Higher abrasion resistance and cost-effectiveness

Highest purity of the ceramic powder with a density of 3.97 g/cm³ and a very fine structure with a grain size less than 3 microns give the innovative material IMA87 its very high Vickers hardness of 1900 MPa. The result is excellent resistance to abrasion caused by the additives in the raw materials and thus longer lifetime and reduced machine downtime.

The new oil applicator guide from CeramTec can be used in all conventional melt spinning equipment. Its presentation at the world's most important textile fair ITMA generated high interest.



Caption: The new oil applicator guide from CeramTec made from advanced ceramic IMA87

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About CeramTec GmbH

CeramTec products are often unseen, but always indispensable. The company, headquartered in Plochingen, Germany, supplies its customers with premium-quality ceramic products from 21 sites across the globe. The products are used in many different applications today, especially in medical engineering, automotive manufacturing, electronics, equipment and mechanical engineering, defense systems, energy and environmental technologies, and in chemical industries. The company's success is rooted in the formula: Continued development of new, innovative materials with a strong commitment to quality, a focus on customer-specific systems solutions and dialog-based application consulting services that cover the entire product life cycle. CeramTec GmbH is one of the largest international manufacturers of ceramics for technically demanding applications. The company has around 3,600 employees worldwide and achieved revenues of approximately €475 million in 2014.

CeramTec GmbH

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