

Evonik develops new PEEK powders for tribological coatings

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Greater efficiency thanks to lower friction: The innovative polyether ether ketone (PEEK) powders VESTAKEEP® developed by Evonik significantly reduce the wear and tear of components in demanding industrial applications.

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PEEK powders for demanding applications

The PEEK powders of Evonik's VESTAKEEP® brand are particularly suitable for applications that are subject to extreme mechanical, thermal and chemical requirements. The coating material is able to withstand permanent operating temperatures of up to 250°C and is characterized by its unique ability to resist abrasion and chemicals.

Thanks to the excellent tribological performance of coatings made from specially developed VESTAKEEP® powders, the friction between sliding surfaces is significantly reduced, which in turn increases efficiency and economy of operation – for example lower fuel consumption and lower CO₂ emissions in combustion engines, extended service life of bearings, or higher turbine speeds. These special VESTAKEEP® coatings also allow for employing more cost-efficient substrate materials for components used in applications with sliding friction.

High performance in powder form

The various VESTAKEEP® PEEK powders are comprised of particles with average particle sizes ranging from 5 to 110 µm. They can be applied by flame and electrostatic spraying methods, or as aqueous dispersions. With electrostatic application, layer thicknesses can range from 20 and 300 µm; dispersions are suitable for thinner layers.

Based on over forty years of experience, Evonik has been a leader in the development and production of high performance polymers. VESTAKEEP® PEEK powders are part of the high-temperature polymers product portfolio offered by the Resource Efficiency Segment.

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***Caption:** New VESTAKEEP® PEEK powders for tribological coatings.*

To learn more about tribological coatings made from VESTAKEEP® PEEK by Evonik, visit our booth 323 in Hall 7A at the European Coatings Show in Nuremberg from April 4–6.

Follow us on Twitter, LinkedIn, Facebook and Google+

For further information, visit www.vestakeep.com

Company information

Evonik, the creative industrial group from Germany, is one of the world leaders in specialty chemicals, operating in the Nutrition & Care, Resource Efficiency and Performance Materials segments. The company benefits from its innovative prowess and integrated technology platforms. In 2015 more than 33,500 employees generated sales of around €13.5 billion and an operating profit (adjusted EBITDA) of about €2.47 billion.

About Resource Efficiency

The Resource Efficiency segment is led by Evonik Resource Efficiency GmbH and supplies high performance materials for environmentally friendly as well as energy-efficient systems to the automotive, paints & coatings, adhesives, construction, and many other industries. This segment employed about 8,600 employees, and generated sales of around €4.3 billion in 2015.

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