

TYZOR®ACtivate™ Catalysts Products and Services that make you money.

Better PET for Bottles and Film

ACtivate[™] 420 and 422 are hydrolytically stable catalysts designed specifically for PET bottle and film resins.

TYZOR® ACtivate™ organometallic catalysts do more than replace antimony.

You can use them to improve process efficiency, throughput and resin performance in a variety of ways tailored to fit your needs.

Our skilled technical support team makes it easy to discover the possibilities, set your priorities, and exploit ACtivate™ catalyst benefits.

You can strengthen your market position, improve your bottom line, introduce innovative products and/or simply make more resin.

- Increase Throughput
- Reduce Resin Costs
- Remove Cobalt and Antimony
- · Offer Differentiated Resins

Slower crystallinity rates provide the foundation for improved resin economics from resin production to hot filling.

Highly active ACtivate[™] 420 and 422 catalysts can polymerize resins at lower temperatures, reducing flavor-degrading acetaldehyde content.

Their superior ligand chemistry delivers melt phase and SSP activity that makes resin with excellent color and aesthetics.

Film resins made
with ACtivate™ 420 catalyst
have superior physical properties
and excellent color and clarity.











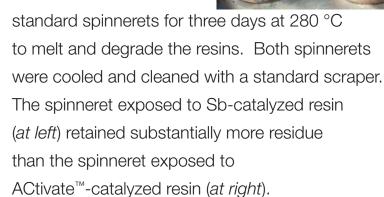
ACtivate[™] 450 is a highly effective catalyst on its own, and it may also be used in conjunction with your existing catalyst.

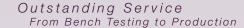
ACtivate[™] 450 significantly reduces fiber breakage by reducing deposits on capillaries, spinnerets and pack facings. Maintenance costs and downtime decline, and production time and throughput improve.

Application testing indicates that fiber resins produced with ACtivate™ catalysts will run longer with less pack wiping

and fewer pack changes.

Polymer chips were baked on the active surfaces of





Dorf Ketal knowledge and technical support will help you gain a competitive advantage by producing innovative, cost-efficient products that deliver superior in-use performance.

You'll make the transition

to ACtivate™ catalysts quickly

and successfully thanks to

expert support from start to finish,

from batch testing through pilot plant

and full-scale plant trials.

Food Contact Compliance

TYZOR® ACtivate™
420 and 422 catalysts
comply with the requirements
of US 21CFR177.1630
and EU Regulation 10/2011
for food contact materials.







Innovation isn't just what we do. It's who we are.™

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Discover what Dorf Ketal can do for you.

About Dorf Ketal Speciality Catalysts

We are a world leader in organotitanates and organozirconate chemistries, the world's largest manufacturer, and the only producer with multiple production sites.

- Acquired DuPont's Tyzor® business in 2010
- Acquired Johnson Matthey's Vertec® intellectual property in 2011
- Constructed new, world-class organometallics plant in 2011
- Completed extensive ACtivate™ PET catalyst testing and trials in 2012, including bench, pilot and CP line testing, bottle blowing and fiber spinning

Our Houston, Texas-based management team oversees a global organization with sales and warehousing in the United States, Brazil, Belgium and India.

Dorf Ketal production sites hold current ISO 9001, 14001 and OSHAS 18001 certifications.

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