

ORGANIC TITANATES

Product Information for Tyzor[®] PITA

Description

Dorf Ketal Tyzor[®] PITA is a titanium ethyl acetoacetate complex with 100% active content. It is a yellow to amber colored liquid that is sensitive to moisture. With a freezing point of approximately 28°C (82°F), Tyzor[®] PITA may crystallize at low temperatures. If crystallization occurs, the product can be readily re-dissolved by warming and agitation.

Typical Properties* of Tyzor[®] PITA

| Property | Value | Unit |
|--------------------------|-----------------------------------|-------|
| TiO ₂ Content | ca. 18.5 | % |
| Active Content | ca. 100 | % |
| Color | Yellow to Amber | |
| Density (20°C) | ca. 1.05 | g/mL |
| Viscosity (20°C) | ca. 10 | mPa·s |
| Freezing Point | ca. 28 | °C |
| Boiling Point | ca. 220 | °C |
| Flash Point** | ca. 27 | °C |
| Solubility in Solvents | Miscible in most organic solvents | |
| Solubility in Water | Decomposes | |

* This table gives typical properties. Dorf Ketal does not make any expressed or implied warranty that this product will continue to have these typical properties.

** Flash point may be lower after exposure to moisture.

Functionality

The high reactivity of Tyzor[®] PITA at low temperatures enables it to react with common functional groups such as R-OH, M-OH, SiOH or R-COOH to effect cross-linking, adhesion promotion, and coating formation of polymers. It can also be used as a drying agent due to its high reactivity with water.

Tyzor[®] PITA is especially well suited for use as a cross-linking agent for silicones and silanol end-capped polymers.

Tyzor[®] PITA can also be used as a Lewis acid catalyst in processes such as esterification, transesterification, condensation and addition.

24 Hours On Line Service +91 222 881 3654

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Applications

Silicone sealants and adhesives

Dorf Ketel Tyzor[®] PITA is used in Room Temperature Vulcanizing 1-component (RTV-1) silicone sealants to increase cure rate, cross-linking and drying time, or to promote adhesion. It can also provide these benefits when used with silanol end-capped polymers, such as polypropylene oxides, acrylates or polyurethanes.

Paint additive

Tyzor[®] PITA can be used as an additive in paints to cross-link functional polymers or binders; to promote adhesion; or to act as a binder itself.

Reaction catalyst

Tyzor[®] PITA can be used as a catalyst for esterification, transesterification, condensation and addition reactions. Typical reaction products include various esters, polyester, polyurethanes, epoxy sealants and adhesives. The benefits of using Tyzor[®] PITA include: elimination of by-products; increased yield; easy work-up; low catalyst loading and low toxicity.

Use

Tyzor[®] PITA is usually formulated with other ingredients in catalysis, cross-linking, paint and sealant applications. The titanate is often added as the last ingredient to prevent undesired pre-reactions with water or other components.

Put Tyzor[®] to Work for You

The broad range of Tyzor[®] organic titanates and zirconates allows you to select the optimum grade to meet your specific needs, enabling you to produce superior quality products for a wide variety of applications and market segments.

And, with warehouses in every region and an integrated global network of highly trained sales and technical service professionals available to assist you, it is easy and convenient to put Tyzor[®] to work in your application anywhere in the world.

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