Technical Data Sheet

Chemical Name: RQB-K12

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Description

Dodecenyl succinic anhydride / Tetrapropenyl succinic anhydride is a product synthesized by the reaction of maleic anhydride with various different olefins. It includes: linear dodecenyl succinic anhydride and branched dodecenyl succinic anhydride.

K12, as an epoxy curing agent, can improve the water resistance and toughness of epoxy resins. High-purity dodecenyl succinic anhydride is widely used in the sealing and encapsulation of electronic components. As a cross-linking epoxy curing agent, it can enhance product performance in many aspects: increasing bonding strength, improving toughness, enhancing electrical resistance, and extending seal life.

In the application of corrosion inhibitors, dodecenyl succinic anhydride and the hydrolysis product of succinic anhydride (including derivatives of both) are often used as corrosion inhibitors in water and hydrocarbon media. When dodecenyl succinic anhydride / tetrapropenyl succinic anhydride is added to gasoline and diesel, it absorbs water by hydrolyzing the anhydride, producing acid, which serves as a corrosion inhibitor. By adding a small amount of dodecenyl succinic anhydride to mineral lubricating oil, it can prevent scuffing and green rust formation on leaded copper bearings. Additionally, dodecenyl succinic anhydride can improve oil lubricity, increase the flash point, and reduce friction in the lubrication system.

Physical and Chemical Properties of the Product

Name	Data
Molecular Formula	C16H26O3
Molecular Weight	266.4
Appearance	Clear Liquid
Specific Gravity	1.03
Viscosity @ 20°C	Approximately 600 cP (centipoise)
Boiling Point	180-192°C
Acid Value	395-432
Acidity	Maximum 1.5%
CAS Number	26544-38-7

Packaging and Storage

200KG/drum, 1000KG/drum

Store in a cool, dry place, away from acids and water. Transport as a general non-hazardous chemical.

Disclaimer

While the descriptions, data, and information related to product specifications in this report are accurate information provided in good faith by our company, they are for reference purposes only. Due to the influence of many factors on product test results and applications, we recommend testing the product and determining its suitability for the intended application before actual use. Additionally, we do not make any absolute guarantees regarding reports, product specifications, descriptions, data, information, and product applications.