

Kagevest 25

Chemical name: Butadiene, homopolymeric, trimethoxysilyl modified (silane-modified liquid polybutadiene)

CAS Number: 71010-70-3

Kagevest 25 is a polymeric organo-silicon filler activator for rubber compounds.

Material Definition

Appearance: Colourless/light yellow liquid

Odour: Weak characteristic odour

Ignition Temperature: Approx. 110°C (DIN 51758)

Melting Point: < - 30°C (solidification point)

Explosion limits: Approx. 350°C (DIN 51794) No explosion limits under normal conditions

Density (20°C): 0.95 g/cm³

Solubility: Water insoluble; Soluble in all plasticizers and solvents commonly used for rubber processing

Viscosity (20°C): Approx. 2000 mPas

Stability: No decomposition up to 250°C

Application

Polymeric organosilicon filler activator for rubber compounds. Through the use of Kagevest, a substantial enhancement of the reinforcing action of light-coloured filler materials can be achieved. Kagevest is active with both sulphur and peroxides in the cross-linking of compounds containing silicic acid and silicate fillers.

Mechanism of action: Polymeric organosilicon containing reactive trimethoxysilyl groups which react with the surface of light-coloured reinforcing filler materials, while the unsaturated polymer chain is incorporated in the cross-linked structure of the vulcanized rubber.

Technical benefits:

- substantially reduced vulcanization time
- reduced elongation set and permanent compression set
- lower viscosity of green compounds
- higher tensile strength and modulus as well as tear propagation strength
- improved abrasion resistance and enhanced properties under dynamic conditions
- reduced water absorption

Handling, Storage and Packaging

If stored in the unopened original container in a dry place, the shelf life of the product is at least one year.

Standard pack size are drums of 180 kg.

Regulatory Information

EU REACH registered: Not applicable

Availability

- Americas (United States, Canada, South America)
- APAC (Asia-Pacific)
- ANZ (Australia, New Zealand)
- EU (European Union)
- PRC (People's Republic of China)
- UK (United Kingdom)

Disclaimer / Conditions

Revision: 2018-12-14 / 74d8



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Stated storage and shelf life times are minimum guaranteed values for a period starting on the

day of shipment. After this period has expired, the product requires additional quality control testing but may very well still be within specification. For more information, refer to our [Shelf Life Policy](#).

For updates on product information, please check this web page regularly:
<https://kautschuk.com/products/silanes/kagevest-25>