Active Grease

High purity silicone, with dryer function

HIGHLIGHTS

Key Features

- ☐ Dryer functionalized silicone
- ☐ Barrier for moisture
- ☐ High moisture sorption capacity to extend waterproof protection
- ☐ Solvent-free, no loose particles
- ☐ Ready to use: no additional processing required

Applications

- ☐ Sulfur hexafluoride circuit breakers
- ☐ Power stations and distribution systems
- ☐ Waterproofing
- ☐ Electrical equipment protection
- ☐ Sealing in construction industry
- ☐ Electronics and power electronics

Product Description

Active Grease is a dryer functionalized silicone, suitable for many applications in the construction, electrical, electronics industries. It is employed for waterproofing, insulating, sealing and potting. Active Grease includes irreversible moisture getter function, to protect the equipment from oxidation or any other damages due to moisture permeation. Its capacity is 9.6% wt, meaning that it is able to sorb almost 10% of its weight in moisture coming from the external environment, preventing water from coming into contact with the sensitive parts of the equipment for an extended period of time. This getter functionality is an added feature to the already high barrier properties of the Active Grease, which protect the device from moisture, even after the dryer gets fully saturated.
Active Grease is also solventless, thus avoiding any possible detrimental effects from vol-atile components.

Material Property	Nominal value
Appearance	Whitish paste
Viscosity at 25°C (cP) (*)	120,000
Density (g/cm^3)	1.2
Moisture capacity (wt %)	9.6
Shelf life (months)	12
Storage atmosphere	Dry air or Nitrogen

(*) at a shear rate of 50 s^{-1}

How it Works

Active Grease can be applied directly on the equipment or device, without any additional processing steps.
Active Grease high getter capacity for moisture is able to greatly increase the lifetime of the equipment through the extended breakthrough time. While standard barrier silicones can only slow down moisture permeation, the active barrier resulting from the getters of this product can sorb the water molecules permeating from ambient air, for a very long time (breakthrough time) before exploiting the standard barrier function.

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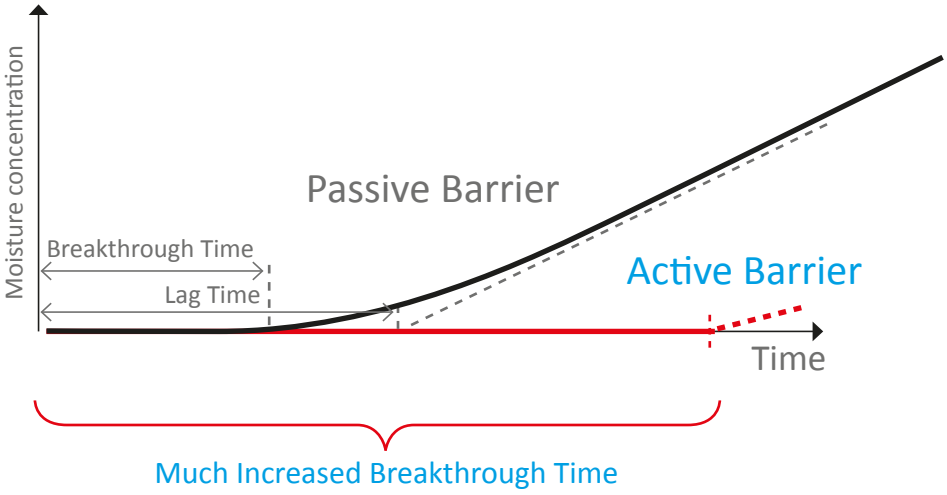
Active Grease: the concept of Breakthrough time



Additional Processing and Storage Information

Active Grease exposure to ambient air should be limited, in order to prevent loss of part of its sorption capacity. After one hour of exposure to ambient air at 22°C/55% RH, the residual sorption capacity of a 100 um layer is still above 7% wt.
The shelf life of Active Grease is 12 months, if it is properly stored, keeping the barrier bag sealed. Active Grease standard packaging is in 400g cartridges.
Typical solvents used for cleaning are ethanol or acetone.

Ordering and Information

Please contact us at **getters_dispensers@saes-group.com**

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The SAES manufacturing companies are ISO9001 certified, the Asian and Italian companies are also ISO14001 certified. Full information about our certifications for each company of the Group are available on our website at: www.saesgroup.com

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getters_dispensers@saes-group.com