



长兴广达新型材料有限公司  
**Changxing Guangda New Materials CO.,LTD**

## GDGEL-S12A RHEOLOGICAL ADDITIVE

**Description** GDGEL-S12A is a kind of purified and modified organoclay rheological additive, designed especially for using in Grease based on synthetic oils such as vegetable oil, polyester oil. It has high gelling efficiency, fine thixotropy and perfect anti-settling.

<b>Properties</b>	Composition	Organic derivative of a montmorillonite clay
	Appearance	Fine light powder,
	Moisture content (105°C,2hr)	≤4.0%
	Loss on ignition (1000°C)	40% Max
	Bulk density	0.42g/cm <sup>3</sup>
	Fineness (<74 μ m, %)	≥98%

- Advantages**
- Easy to use and handle
  - The gel is of light colour and high clarity
  - No need for polar activator, no need to make pre-gel
  - High efficiency
  - Consistent development of rheology
  - Can be used to post correct

- Application**
- Grease Lubricant(the base oil is synthetic oil such as middle-high viscosity petroleum, mineral oil, diester oil, polyester oil, vegetable oil etc.)
  - Wood Coating

**Using** When it is used in Grease Lubricant, polar activator is needed. Polar activator is acetone/water(95/5). The dosage of activator is 20%-30% of the weight of GDGEL-S12A. And also high shear can promote the dispersing of GDGEL-S12A  
Adding procedure as follows:  
1. If condition permits, heat the base oil to 60~70°C  
2. Add GDGEL-S12A while stirring, addition level is 7%-10% of the total formulation. Stir 5~10minutes  
3. Add polar activator, addition level is 2%-3% of the total formulation. Then add other additives, stir 25~30minutes.

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4. Use pump to help it pass colloid grinding and homogenizer.
  5. Deair, filtrate, pack.

Note: With High-speed dispersant of grinding machine, and properly prolong the dispersing time, better gelatin performance can be reached.

The Lubricating grease which uses organoclay as thickener will own high dropping point, thus can be used under high temperature and presents good impermeability and water resistance.

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**Package  
&Storage**

Kraft paper bag with PE liner or multi-wall paper sacks or customized. 25kg/bag or 50LB/bag or customized. GDGEL-S12A has a shelf life of 24 months, and should be stored in ventilated cool and dry place.

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**Notice**

The information on use is based on data which are believed reliable, but any recommendation or suggestion made is without guarantee or warranty, since the conditions of use are outside our control. All products are sold on the conditions that purchasers shall make their own tests to determine the suitability of such products for their purpose and that all risks are assumed by user. We disclaim any responsibility for damages resulting from careless or improper handling or use. Nothing herein is to be taken as permission, inducement or recommendation to practice any patented invention without a license.

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