



ZHEJIANG FENGHONG NEW MATERIAL CO. ,LTD.
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HFGEL-120-0G

Rheology Modifier

GENERAL INFORMATION

HFGEL-120-0G is easy to disperse and suitable for lubricating greases based on recovered oil, mineral oil with low kinematic viscosity (such as 150SN, 500SN), partial synthetic oils and other organic fluids.

ADVANTAGES

- Ease of manufacturing
- Resistance to melting
- Inhibits oil separation
- Excellent worked stability
- Excellent high temperature stability

PHYSICAL PROPERTES

Composition: Organic derivative of bentonite

Color/Form: Light cream, finely divided powder

Density: 1.7 g/cm³

Moisture: ≤3.5%

Fineness: 98% Min thru 200 mesh

INCORPORATIONS

- 1) Add 1/3 to 1/2 base oil and rheology modifier into a grease preparation kettle. Stir them for 10 - 15 minutes, and mix the materials uniformly.
- 2) Add dispersing agent and stir for 30 minutes until the contents of the kettle form grease structure.
- 3) Heat the kettle to 50 - 65 °C, and hold the temperature for 20 - 30 minutes while stirring.
- 4) Add the remained base oil into a grease preparation kettle in 3-4 batches slowly, and add the next batch of base oil after the previous batch of oil is



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formed into grease completely(so that the consistency, mechanical stability of grease can be improved)

- 5) Add additives (the additives can be dissolved in a small amount of base oil in advance) and continuously stir and mix uniformly.
- 6) Homogenize grease in the kettle through a grease homogenizer or circularly cut for 30 - 60 minutes under the pressure of 6 - 7 kgf / cm² to obtain the bentonite grease product.
- 7) Test the sample of grease, package after the quality is approved.

Chemical Activator	
Methanol/H ₂ O	12%-25% based on dry weight of HFGEL-120-0G
Ethanol/H ₂ O (95/5)	12%-25% based on dry weight of HFGEL-120-0G
Propylene Carbonate	25%-35% based on dry weight of HFGEL-120-0G
Acetone/H ₂ O	25%-35% based on dry weight of HFGEL-120-0G

RECOMMENDED LEVELS

HFGEL-120-0G use level depends on the system but is typically 10% - 17% (dry) by weight of the system, depending upon the degree of thickening or other properties desired. Laboratory testing is recommended to determine optimal level.

HEALTH AND SAFETY DATA

Before handling this material, read the corresponding Safety Data Sheet (SDS) for safety, health and environmental data.

SHELF LIFE

HFGEL-120-0G has a shelf life of at least two years from date of manufacture. Store in a cool dry place.

CERTIFICATIONS

ISO 9001 Quality System, ISO 14001 Environmental Management System, ISO 18001 Safety System

MANUFACTURER: ZHEJIANG FENGHONG NEW MATERIAL CO., LTD.

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