



ZHEJIANG FENGHONG NEW MATERIAL CO., LTD.
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HFGE-120-Q Rheology Modifier

GENERAL INFORMATION

HFGE-120-Q is an organoclay for solvent-based systems of low to medium polarity.

ADVANTAGES

- ☆ High gelling efficiency over low to medium polarity organic liquids.
- ☆ High viscosity and excellent thickening property over a wide temperature range.
- ☆ Imparts particle suspension, owns anti-corrosion property and temperature resistance property.
- ☆ Exerts strong film reinforce action in organic binder systems.
- ☆ High Purity.

PHYSICAL PROPERTES	RECOMMENDED USE
Appearance: Free flowing powder	<ul style="list-style-type: none">• Naphthenic Oil Based and Paraffinic Based Mineral Oil Lubricating grease
Color/Form : Light white	<ul style="list-style-type: none">• Synthetic Oil Lubricating grease
Density: 1.70g/cm ³	<ul style="list-style-type: none">• Vegetable Oil Lubricating grease
Moisture(@105°C,2hrs): ≤3.5%	
Fineness: 98.0%Min thru 200 mesh	

INCORPORATIONS

HFGE-120-Q belongs to the conventional type of organoclay group, which requires mechanical energy, shear forces applied with a good dispersion equipment, and a chemical (polar) activator to reach the proper level of delamination of the organoclay platelet stacks.

Chemical Activator	
Methanol/H ₂ O & Ethanol/H ₂ O (95/5)	12%-40% by weight of HFGE-120-Q
Propylene Carbonate	25%-40% by weight of HFGE-120-Q
Acetone/H ₂ O	25%-40% by weight of HFGE-120-Q

It is always recommended to determine the proper level of addition by experiment. Either



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defect or excess of chemical activator would result in poorer viscosity development.

Recommended Procedures:

(1) Heat the specific oil to 60°C ~ 70°C.

(2) Add HFGEL-120-Q (8-15% by weight of total formula), mill for 5-10min.

(3) Add polar activator (12-40% by weight of organoclay), then add other additives, mill for 25-30min.

(4) Using pump for getting through colloid grinding or homogenizer.

(5) Remove air, filtrate and package.

Increasing dispersion speed, prolong dispersion time or enhance the temperature will improve the efficiency of HFGEL-120-Q.

RECOMMENDED LEVELS

The amount of HFGEL-120-Q rheology modifier required depends upon the type of organic system and the degree of thickening or other properties desired. Addition levels are typically between 8%-15% by weight of the oil.

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-Q 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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