



Zhejiang Fenghong New Material Co., Ltd.

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HFGEL 120-Z

Rheology Modifier for Low to Medium Polarity Inks & Paints

GENERAL INFORMATION

HFGEL 120-Z is an organophilic clay recommended for use in non-polar to intermediate polarity solvent ink and coatings systems and requires no polar activator. It is part of the newest generation of organoclays, being highly efficient and easy to disperse. It is designed for use in systems rather than solvents alone and is not suitable for lubricating greases or other binderless products.

ADVANTAGES

- Helps control rheological properties including tack and misting of inks
- Easy to use replacement for traditional organoclays
- Builds viscosity and reduces pigment settling

PHYSICAL PROPERTIES

Composition	Amine-treated bentonite clay
Color/Form	Off-white, finely divided powder
Specific Gravity	1.5 g/cm ³
Moisture	3.5% Max
Fully Dispersed Particle Size	<5µm

RECOMMENDED USE

- Paste inks
- Liquid inks
- Trade sales paints
- Wood stains

INCORPORATION

HFGEL 120-Z is best incorporated in the dispersion and requires no chemical activator to achieve optimal activation. It can be dispersed in the pigment grind under high shear agitation using normal processing equipment. HFGEL 120-Z can also be incorporated in the letdown tank assuming minimal shear is reached and sufficient time for full activation is allowed. Typical dispersion equipment for HFGEL 120-Z includes Cowles-type dissolvers as well as sand, ball and three-roll mills.



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RECOMMENDED LEVELS

HFGEL 120-Z is typically used at levels of 0.2% - 1.0% 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-Z 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



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