Superior Adhesion & very low prices!

cenvar Insulating Varnishes, Resins & Wire Enamels

cenvar FGV-N1, FGV-V1 & FGV-H2

Binder Varnish for Fibre Glass Covered Conductors, available in Class F & Class H

Technical Data Sheet

General Characteristics

cenvar FGV series varnishes are specially formulated for impregnating fibre glass covered conductors, sleeves, tapes, braided wires, etc. All products are single component. No need to mix two products. For viscosity reduction (if required), Thinner TFG / TFG-H to be added.

FGV-N1 is heat resistant with Temperature Index 155^{0}C. The cured film gives a good flexibility along with good bond strength. It has medium viscosity and is fast dry with low curing temperature.

FGV-V1 is heat resistant with Temperature Index 155^{0}C. It is an epoxy based varnish with excellent flexibility along with very good adhesion & bond strength. It is low viscosity with high penetration.

FGV-H2 is high heat resistant with Temperature Index 180^{0}C. The cured film gives excellent adhesion with good flexibility. It has high penetration, high bond strength and no patina.

All the three products have a good storage stability of 6 months.

Fibre Glass Covered Varnishes :

FGV-N1	Class F
FGV-V1	Class F
FGV-H2	Class H

FGV-N1

- Thermal Class F, 155 ^{0}C
- Medium Viscosity
- **High Bond Strength & Adhesion**
- Very fast curing
- Low Oven Temperature (180^{0}C~250^{0}C)
- Viscosity @30^{0}C : 50 ~ 70 secs
- High Solids : 48 ~ 52 %
- Dielectric Strength : >70
- Thinner TFG

FGV-V1

- Thermal Class F, 155 ^{0}C
- Low Viscosity, High Penetration
- **High Bond Strength & Adhesion**
- Very Good Flexibility
- Low Oven Temperature (250^{0}C~300^{0}C)
- Viscosity @30^{0}C : 30 ~ 50 secs
- High Solids : 46 ~ 50 %
- Dielectric Strength : >70
- Thinner TFG-H

FGV-H2

- Thermal Class H, 180 ^{0}C
- Low Viscosity, High Penetration
- **High Bond Strength & Adhesion**
- Very Good Flexibility
- Medium Oven Temp. (300^{0}C~400^{0}C)
- Viscosity @30^{0}C : 20 ~ 40 secs
- High Solids : 46 ~ 50 %
- Dielectric Strength : >70
- Thinner TFG-H

Chetak Manufacturing Co. cenvar

508, Bharat Chambers, Baroda Street, Mumbai 400 009 INDIA.
T: 022-66311995 E: info@cenvar.com W: www.cenvar.com

cenvar FGV-N1, FGV-V1 & FGV-H2

Technical Data Sheet - Application Note

Application:

cenvar FGV series varnishes are specially formulated for impregnating fibre glass covered conductors, sleeves, tapes, braided wires, etc. All products are single component. No need to mix two products.
For the desired application viscosity, Thinner TFG / TFG-H to be added.

cenvar FGV series varnishes can be easily coated by dipping impregnation method. The curing of varnish should be done in air-circulated ovens or conveyorised baking ovens.

For single coat batch impregnation process, curing cycles for FGV-N1 would be 130 to 150 ^{0}C for 1 hour. For FGV-V1 and FGV-H2 curing cycles would be 140 to 160 ^{0}C for 1 hour. For two coats impregnation, first coat to be cured for atleast 30 mins and the second coat for 60 mins.

For continuous on-line impregnating, curing temperatures and time would depend on the product being impregnated, speed, size, oven type, etc. FGV-N1 can cure at lower oven temperatures than FGV-V1 and FGV-H2. FGV-N1 can cure at oven temperatures 180^{0}C ~ 250^{0}C within few minutes. FGV-V1 shall require 250^{0}C ~ 300^{0}C and FGV-H2 shall require 300^{0}C ~ 400^{0}C for few minutes.
Note: Curing is dependent on temperature and time. These varnishes can cure at lower temperatures, however curing time to be increased.

HANDLING, STORAGE AND SAFETY

Wire Enamels and Thinners are poisonous and flammable liquids. They can be hazardous to health. Proper care and safety should be taken in handling and storage. Maintain storage temperature below 30^{0}C. Keep containers closed. Avoid inhalation and direct contact with skin, eyes and clothing. While handling, use PVC hand gloves, safety goggles, face shield, etc. In case of contact, wash the affected area with plenty of water and soap. For fire fighting, use foam, CO_2 or dry chemical. For further information, kindly refer to our Material Safety Data Sheet.

NOTICE : EXEMPTION FOR LIABILITY

Technical improvements and changes are reserved with us. The information contained herein is furnished without charge or obligation, and is given and accepted at recipient's sole risk. Reasonable efforts were made to verify this information, however due to the different possible parameters and applications, we fail to assume responsibility for any loss, damage or accident of any nature, or for the technical results or any patents.

Chetak Manufacturing Co. cenvar
508, Bharat Chambers, Baroda Street, Mumbai 400 009 INDIA.
T: 022-66311995 E: info@cenvar.com W: www.cenvar.com