

FIS MATCHING GEL

FIS Matching Gel helps to reduce optical loss within fiber optic mechanical splices and connectors, apply optical couplant at the interface of the two mated fibers. This minimizes loss by reducing the difference in the index of refraction between the mated fibers.

FEATURES

- Very High Clarity
- Good mechanical shear stability
- Low bleed and evaporation
- Excellent adhesion

TYPICAL APPLICATIONS

Reduce internal reflection and refraction in optical instruments

- Optical cameras
- Gamma cameras
- Scintillators
- Fiber Optics



F1-0001V

SPECIFICATIONS

| | |
|-------------------------------------|--------------------|
| Appearance | Clear, Transparent |
| Size | 0.40 oz |
| Penetration (Worked 60X), ASTM D217 | 317 |
| Bleed (100°C/24 Hours) | 0.18% |
| Evaporation (100°C/24 Hours) | 0.36 |
| Specific Gravity | 1.06 |
| Index of Refraction | 1.463 |
| Light Transmittance, % | |
| 400nm (1) Nanometers | 96% |
| 425nm | 98% |
| 450nm | 98% |
| 500nm | 98% |

Restrictions: Light transmission is adversely affected by temperature. Maximum clarity with F1-0001V is between 65 and 80°F (18 to 27°C). Do not use with applications involving highly oxidative chemicals such as pure oxygen, nitrates, peroxides or chlorine; strong mineral acids such as sulfuric, hydrochloric and nitric; strongly alkaline materials such as sodium or potassium hydroxide. Do not use in surface to be painted.

Special Storage Instructions: F1-0001V may be stored at 70°F (21°C) or below for periods up to six (6) months. Elevated storage temperatures or longer periods of storages will result in a slow softening of the compound. Storage at temperatures below 40°F (4°C) is recommended for extended storage. Although the compound may soften, other properties are unaffected and the compound may be used for its intended purpose.