

Technirez® FR-001

Phosphonate Ester Flame Retardant

Description:

Technirez® FR-001 is high phosphorous containing oligomeric phosphonate flame retardant that can be used in a variety of applications requiring the highest standard of flame resistance. FR-001 can be used at loading levels below those of other organophosphorous containing flame retardants. FR-001 can be used to replace or in combination with other flame retardants such as brominated epoxy resins. It is useful in thermoset and thermoplastic resins based formulations. Properly formulated systems containing FR-001 will pass FAR25.853 a & b (OSU 65/65/200) flame and smoke specifications as well as UL 94-0 flame specification.

Advantages:

- Low volatility content
- Good flame retardant efficiency
- Excellent thermal stability
- High phosphorous content

Typical Applications:

- Aircraft interior parts
- Electrical potting and encapsulation
- Printed circuit board

Handling Precautions:

Refer to the product Safety Data Sheet

Typical Properties:

| | |
|---------------------------|---------------------------|
| Appearance: | Clear to off-white liquid |
| Viscosity (@40°C): | 15,000 cPs |
| Active concentration: | 100% |
| Phosphorous content: | 21.5% |
| Acid number: | <2 mg KOH/g |
| Specific gravity @ 25°C: | 1.3 |
| Flash point (closed cup): | 146°C |

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