

# Envirotemp<sup>®</sup> FR3<sup>™</sup> Fluid

## Key Attributes

### Feature

- Very High Fire Point of 360°C
- Third Party Listings
  - Approved by Factory Mutual
  - Classified by Underwriters Laboratories<sup>™</sup>
- Fully Miscible with Conventional Transformer Oil, High Molecular Weight Hydrocarbons (HMWH), and Most Askarel Substitutes
- Commodity Seed Oil-Based with Food Grade Additives
  
- Biodegradation Rate Meets EPA Standard Reference Material Deemed “Ultimately Biodegradable” per EPA Test OPPTS 835.3100
- Acute Toxicity Test OECD G.L. 203 (Trout Fry) Achieved Zero Mortality Rate
- Contains No Petroleum
- Enhances Insulating Paper Thermal Life by a Factor of 5 to 8 Times
- Better Loadbreak Dielectric Strength Retention
- Superior Resistance to Coke and Sludge Formation
- Lower Operating Viscosity Than Silicone and HMWHs
- ISO 9001 Certified Production Facility
- ANSI/IEEE C57.00 and Field Tested

### Benefit

- Increased Margin of Fire Safety
- Easy Code Compliance
  
- Excellent for Retrofilling Existing Liquid-Filled Transformers
  - Maintains Fire Point over 300°C with up to 7.5% Residual Mineral Oil
- Renewable Natural Resource
- FDA Certifiable (Differentiates Edible Oil from Mineral Oil Regulations)
- New and Pending Environmental Regulatory Relief
- Reduced Environmental Impact in the Event of an Accidental Spill
  - For Clean-Up Natural Remediation May be an Option
- Key Attribute for Gaining Environmentally Preferred Product (EPP) Status
- Replaces a Depleting Non-Renewable Resource
- Longer Life and/or Higher Operating Temperature
- Reduced Rate of Dielectric Degradation
- Better Dielectric and Thermal Performance
- More Effective Cooling; Lower Transformer Design Cost Than Other Less-Flammable Fluids
- Quality Assurance
- Laboratory and Field Proven Functionality

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