



How Much Is It Worth?

B900-04063

Why Refill Transformers with Envirotemp® FR3™ Fluid?

- a) Extended Life
- b) Expanded Capacity
- c) Reduced Fire and Environmental Risk
- d) ROI < 2 Years
- ✓ e) All of the Above

Retrofit Service:

Conserve one of your most important assets by refilling your transformer with insulation life-extending Envirotemp® FR3™ fluid. Lower life-cycle costs with increased performance. Counter insurance and liability costs with reduced fire and environmental risks.

Why Cooper Retrofit Service?

With Cooper, refilling your transformer with FR3 fluid is a turnkey process. We'll take care of it all, from quote to completion. Whether you ship equipment to us or need on-site service, **you can count on Cooper to do it right, on time, and on budget.**

As the developer of FR3 fluid, Cooper can best provide the FR3 fluid retrofit services you need, regardless of the size, make, or voltages of your equipment. Our highly competent retrofit team will complete the job to your satisfaction. (Units filled with silicone oil are not eligible for CPS FR3 fluid retrofit service at this time.) Across the U.S. and Canada, no job is too big or too small for us or for FR3 fluid.

Program Details:

Cooper Power Systems can service **all transformer equipment makes, sizes, and voltages** with a turnkey service that includes four easy steps:

1. Fluid testing - all fluid is pre- and post-refill tested, including testing for PCBs.
2. Used-oil disposal - PCB-free (<1 ppm) fluid is recycled. PCB-contaminated fluid (1 to 449 ppm) is incinerated.
3. Fluid for the flush and refill process - shipped in totes, drums, and bulk transport.
4. Refill logistics - we bring in the right equipment for the job.

To minimize transportation costs, CPS schedules **just-in-time fluid delivery**. We manage the entire process and provide supervision services when required.

Contact Us:

For more information on refilling your equipment with Cooper Power Systems and FR3 fluid, please call our toll-free refill hotline or email us today.

Refill Hotline: **866-861-0328**

Refill FAX: **262-953-5286**

Refill Email: **refills@cooperpower.com**





Better Performance, Longer Equipment Life, Lower Costs

Improve Your Bottom Line

Envirotemp FR3 fluid is a biodegradable dielectric coolant formulated from an edible vegetable oil base. It is proven to add value to new and retrofilled power equipment. In addition to transformers, FR3 fluid is also used in sectionalizing switches, transformer rectifiers, electromagnets, and much more.

Increase Loads and Extend Equipment Life

See greater value and lower life cycle costs through increased performance and/or longer life. **IEEE**[®] standard tests show that FR3 fluid increases insulating paper thermal life by a factor of 5 to 8 times. Better paper integrity means immediate benefits with increased "loadability," or **long-term savings with longer equipment life.**

Improved Safety

FR3 fluid offers superior fire-resistant properties, virtually eliminating the possibility of costly, sustained and propagating oil pool fires. Simplified installation requirements, including reduced clearance between transformers and other equipment and the reduction or elimination of fire suppression systems, will also *help save you money almost immediately.* FR3 fluid complies with major codes and standards. It is UL[®] classified and FM Global[®] approved.

The Greenest Choice

FR3 fluid is specially formulated to minimize both environmental and health risks. The non-toxic¹ fluid is made from edible, food-grade seed oils and performance enhancing additives. It can be regenerated, recycled, and reused. It is a renewable resource, deemed "ultimately biodegradable"² and is the first dielectric coolant to receive the Environmental Technology Verification (ETV) from the U.S. and California EPAs.

Realize Cost Savings

FR3 fluid from Cooper Power Systems saves you money in many ways:

- **Delayed asset replacement** due to extended insulation paper life. FR3 fluid-cooled transformers operate at full capacity much longer than mineral oil-filled transformers.
- **Increased "loadability,"** if output—rather than longer equipment life—is your primary goal.
- **Lower manpower and equipment costs** due to greater flexibility when selecting installation sites and simplified fire safety and installation requirements.
- **Greatly reduced risk of fire** could lead to lower insurance and liability costs.
- **Superior environmental attributes** could lower clean-up costs in the event of a release into the environment.

For more information on FR3 fluid or to contact us, please visit:

www.cooperpower.com/longlife

¹ Per OECD G.L. 203

² Per EPA OPPTS 835.3100 and 835.3110

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FR3[™] fluid is a trademark of Cooper Power Systems or its affiliates.

Envirotemp[®] FR3[™] fluid is covered by one or more of the following U.S. patents: 6,037,537; 6,184,459; 6,353,655; 6,398,986, and 6,613,250.

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IEEE[®] is a registered trademark of the Institute of Electrical and Electronics Engineers, Inc.

B900-04063 • May 2005 • New Issue

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