



265 Jefferson Avenue • Cleveland, Ohio 44113-2594  
(216) 771-4300 • Ohio WATS (800) 362-1530  
Fax (216) 771-1845

Product Information

Page 1 of 2

## ERGON HYVOLT II TRANSFORMER OIL

**Product Description** **Ergon Hyvolt II** is an inhibited, Type II cooling and electrical insulating oil for transformers that resists the formation of acids and sludge. The product meets ASTM D 3487 and NEMA II requirements. **Ergon Hyvolt II** can be used where a Type I (uninhibited) electrical transformer oil is recommended, the primary difference is that Type I (uninhibited) does not contain an antioxidant package. Packaging of the product is done with a protective atmosphere, nitrogen, to prevent airborne contaminate and moisture from compromising the product.

**Applications**

- Oil-immersed transformers
- Circuit breakers
- Submersible pumps
- Switches
- Oil filled capacitors

**Benefits**

- High Dielectric Strength  
Measure of the ability to withstand electrical stress without failure, it is the voltage at which breakdown occurs between two electrodes under prescribed test conditions. It indicates the presence of contaminating agents, such as water, dirt, or conducting particles in the liquid, one or more of which may be present when low dielectric breakdown values are found by test. However, a high dielectric breakdown voltage does not indicate the absence of all contaminants.

- Low viscosity for good heat transfer
- Thermal and Oxidative stability
- Low pour point
- No corrosive sulfur or polychlorinated biphenyl's (PCBs)

**Cross Reference**

- Shell Diala AX
- Texaco Transformer Oil Inhibited
- Cross
- Exxon Univolt N-61
- Chevron Transformer Oil
- Calumet

*Refer to Universal Oil's Material Safety Data Sheet (MSDS) 17-21-02 for additional information.*

*The statements, technical information and recommendations contained herein are reliable, but given without warranty or guarantee of any kind. We assume no responsibility for loss, damage or expense, direct or consequential, arising out of the use of, or inability to use, our goods.*

# ERGON HYVOLT II TRANSFORMER OIL

## Specifications

Test Description	ASTM D Method	Typicals
Viscosity, SUS @ 100° F	445	61.0
Viscosity, cSt @ 40° C	341	9.8
Specific Gravity, 60° F	4052	0.8890
Flash Point, COC, ° C	92	149
Color, ASTM	6045	L0.5
Pour Point, ° C	5949	-55
Interfacial Tension, 25° C, dynes/cm	971	51
Aniline Point, ° C	611	70.4
Dielectric Breakdown Voltage @ 60 Hz, disk electrodes	877	40
Power Factor, % @ 25° C	924	0.005
Power Factor, % @ 100° C	924	0.084
Oxidation Stability 72 hr, % Sludge by mass TAN, mg KOH/g 164 hr, % Sludge by mass TAN, mg KOH/g	2440	<0.01 <0.01 <0.01 <0.01
Oxidation Inhibitor Content, wt%	2668	0.25
Corrosive Sulfur	1275	Noncorrosive
Water Content	1533	15
Neutralization Number, mg KOH/g	974	<0.01
PCB Content, ppm	4059	Not detected

This product meets ASTM D 3487 and NEMA II requirements.