

Univolt™ TO (EU)

Hydrocarbon Fluid

General

Specification Region	▪ Africa & Middle East	▪ Europe
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Function	Minimum	Maximum	Unit	Test Method
Viscosity				ASTM D7042
40°C	--	12	mm ² /s	ISO 3104
-30°C ¹	--	1800	mm ² /s	
Pour Point ¹	--	-40	°C	ISO 3016
Water	--	30	mg/kg	IEC 60814
Breakdown Voltage, before Treatment	30	--	kV	IEC 60156
Breakdown Voltage, after Treatment	70	--	kV	IEC 60156
Density (20°C)	--	0.8950	g/ml	ASTM D7042
				ISO 12185
Dielectric Dissipation Factor				IEC 60247
90°C	--	0.005		IEC 61620

Refining/Stability	Minimum	Maximum	Unit	Test Method
Color ¹	--	0.5		ASTM D1500
				ISO 2049
Appearance	Clear, Free of Sediment or Suspended Matter	--		IEC 60296
Acidity ¹	--	0.01	mg K/g	IEC 62021-1
				IEC 62021-2
Interfacial Tension ¹	43	--	mN/m	ASTM D971
				IEC 62961
Total Sulfur Content ¹	--	0.05	%	ISO 14596
Sulfur, Corrosive	Non-corrosive	--		DIN 51353
Sulfur, Potentially Corrosive	Non-corrosive	--		IEC 62535
DBDS or Dibenzyl Disulfide ²	Not Detectable	--		IEC 62697-1
Oxidation Inhibitor	0.08	0.40	%	IEC 60666
Additives, Metal Passivators ²	Not Detectable	--		IEC 60666
2-Furfural & Related Compounds ³	Not Detectable	--		IEC 61198
Stray Gassing ⁴	Not Detectable	--		IEC 60296-PROA4

Performance	Minimum	Maximum	Unit	Test Method
Oxidation Stability, Acidity ⁵	--	0.3	mg K/g	IEC 61125
Oxidation Stability, DDF @ 90°C ⁵	--	0.05		IEC 61125
Oxidation Stability, Sludge ⁵	--	0.05	wt%	IEC 61125
RPVOT ¹ (With AO)	Report Only	--		ASTM D2112

Health, Safety and Environment (HSE)	Minimum	Maximum	Unit	Test Method
Flash Point	135	--	°C	ISO 2719
Polycyclic Aromatics ¹	--	3	%	IP 346
Polychlorinated Biphenyl Content ⁶	Not Detectable	--		IEC 61619

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Notes

Univolt™ TO (EU) meets the requirements of IEC 60296 as a Type A (fully inhibited high-grade oils).

The values indicated in this document may deviate from the test method requirements by the number of significant figures shown.

ExxonMobil's sampling and testing procedures in effect at the time of production will be used for certification testing. Results may be based on tank certification, manufacturing data, periodic testing and/or most recent product restock. ExxonMobil reserves the right to use other equivalent test methods in certifying this product.

¹ Test will be conducted on a periodic interval. Value reported will be the last tested figure

² Not detectable (< 5 mg/kg)

Test will be conducted on a periodic interval. Value reported will be the last tested figure

³ Not detectable (< 0.05 mg/kg)

Test will be conducted on a periodic interval. Value reported will be the last tested figure

⁴ Non stray gassing: < 50ul/l hydrogen (H₂) and < 50 ul/l methane (CH₄) and <50ul/l ethane (C₂H₆)

IEC 60296, Procedure in clause A.4 (oil saturated with air) in the presence of copper

Test will be conducted on a periodic interval. Value reported will be the last tested figure

⁵ Oxidation stability @120 C, 500h

Test will be conducted on a periodic interval. Value reported will be the last tested figure

⁶ Not detectable (< 2 mg/kg)

Test will be conducted on a periodic interval. Value reported will be the last tested figure

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