

Univolt™ TO (EU)

Hydrocarbon Fluid

General				
Specification Region	▪ Africa & Middle East		▪ Europe	
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

Univolt™ TO (EU) Hydrocarbon Fluid

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

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

©2024 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com