# **Ex on Mobil**

# Esterex<sup>™</sup> A34 Synthetic Fluid

## **Product Description**

Esterex<sup>™</sup> Adipate Esters are API category Group V fluids. These esters have excellent low-temperature properties, high viscosity indices, good lubricating properties and low volatilities. Esterex<sup>™</sup> Adipate Esters can be used as sole basestocks or blendstocks with other synthetic fluids in many automotive and industrial lubricant applications. These esters are ideal in high-temperature conditions, such as reciprocating air compressors, where discharge valve cleanliness is required.

General					
Availability <sup>1</sup>	<ul><li>Africa &amp; Middle East</li><li>Asia Pacific</li></ul>		Europe Latin America	<ul> <li>North America</li> </ul>	
Revision Date	• 11/16/2005				
Basics	Typical Value	(English)	Typical Value	(SI)	Test Based On
Specific Gravity (68°F (20°C))	0.922		0.922		BRCP 4843
Appearance	Clear and Free		Clear and Free		Visual
Color	< 0.5		< 0.5		ASTM D1500
Kinematic Viscosity					ASTM D445
212°F (100°C)	3.2	cSt		mm²/s	
104°F (40°C)	12.0	cSt		mm²/s	
-40°F (-40°C) <sup>2</sup>	1970	cSt	1970	mm²/s	
Viscosity Index	137		137		ASTM D2270
Pour Point	-76	°F	-60	°C	ASTM D5950/D97
Flash Point, COC	390	°F	199	°C	ASTM D92
Noack Volatility	20.4	wt%	20.4	wt%	ASTM D5800/DIN 51581
Water	< 1000	ppm	< 1000	ppm	ASTM D6304
Refractive Index <sup>2</sup> (77°F (25°C))	1.4487		1.4487		ASTM D1218
Total Acid Number	< 0.08	mg KOH/g	< 0.08	mg KOH/g	BRCP 4625
Hydrolytic Stability, TAN Change <sup>2</sup>	0.11	mg KOH/g	0.11	mg KOH/g	ASTM D2619
Thermal	Typical Value		Typical Value		Test Based On
Density Correction Factor <sup>2</sup>	7.33E-4	(g/cm³)/°C	7.33E-4	(g/cm³)/°C	ASTM D1250
Fire Point, COC <sup>2</sup>	478	°F	248	°C	ASTM D92
Flash Point, PMCC <sup>2</sup>	338	°F	170	°C	ASTM D93
Evaporation Loss <sup>2</sup> (401°F (205°C), 6.5 hr)	37.0	wt%	37.0	wt%	ASTM D972 (mod)
Performance	Typical Value	(English)	Typical Value	(SI)	Test Based On
RPVOT <sup>3</sup> (With AO)	> 1210	min	> 1210	min	ASTM D2272
Biodegradation <sup>2</sup>	78.5	%	78.5	%	OECD 301F
Solubility	Typical Value	(English)	Typical Value	(SI)	Test Based On
Aniline Point <sup>2</sup>	14.4	°F	-9.8	°C	ASTM D611
Kauri-Butanol Value <sup>2</sup>	84.5		84.5		ASTM D1133
Elastomer Compatibility, Fluoroelastomer	Typical Value	(English)	Typical Value	(SI)	Test Based On
Volume Change <sup>2</sup>	8.6		8.6	%	ASTM D471
Hardness Change <sup>2</sup>	-7		-7		ASTM D471
Tensile Strength Change <sup>2</sup>	-22.0	%	-22.0	%	ASTM D471
Elongation Change <sup>2</sup>	-2.4	%	-2.4	%	ASTM D471

Esterex™ A34 Synthetic Fluid

Elastomer Compatibility, Nitrile	Typical Value	(English)	Typical Value	(SI)	Test Based On
Volume Change <sup>2</sup>	17.2	%	17.2	%	ASTM D471
Hardness Change <sup>2</sup>	-16		-16		ASTM D471
Tensile Strength Change <sup>2</sup>	-14.9	%	-14.9	%	ASTM D471
Elongation Change <sup>2</sup>	-30.9	%	-30.9	%	ASTM D471
Elastomer Compatibility, Polyacrylate	Typical Value	(English)	Typical Value	(SI)	Test Based On
Volume Change <sup>2</sup>	42.1	%	42.1	%	ASTM D471
Hardness Change <sup>2</sup>	-24		-24		ASTM D471
Tensile Strength Change <sup>2</sup>	-45.0	%	-45.0	%	ASTM D471
Elongation Change <sup>2</sup>	-22.5	%	-22.5	%	ASTM D471

Legal Statement

For detailed Product Stewardship information, please contact Customer Service.

### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

<sup>2</sup> Single sample or two sample average determinations

<sup>3</sup> Single sample or two sample average determinations 1 wt.% diphenylamines and phenyl naphthylamine antioxidant (AO) added

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

©2019 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. The terms "we," "our," "ExxonMobil Chemical" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Chemical" or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com