

EsterexTM A34 Synthetic Fluid

Product Description

Esterex™ 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™ 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 ¹	Africa & Middle EastAsia Pacific		Europe Latin America	North America	
Revision Date	• 07/01/2019				
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Basics	Typical Value	(English)	Typical Value	(SI)	Test Based On
Specific Gravity (68°F (20°C))	0.922		0.922		BRCP 4843
Appearance Color	Clear and Free		Clear and Free		Visual ASTM D1500
	< 0.5		< 0.5		ASTM D1300 ASTM D445
Kinematic Viscosity 212°F (100°C)	2.7	cSt	2.2	mm²/s	ASTIVI D445
104°F (40°C)	12.0			mm ² /s	
-40°F (-40°C) ²	1970			mm²/s	
Viscosity Index	137		137	, 2	ASTM D2270
Pour Point	-76	°F	-60	°C	ASTM D5950/D97
Flash Point, COC	390		199		ASTM D92
Noack Volatility	20.4	wt%	20.4	wt%	ASTM D5800/DIN 51581
Water	< 1000	ppm	< 1000	ppm	ASTM D6304
Refractive Index ² (77°F (25°C))	1.4487		1.4487	<u> </u>	ASTM D1218
Total Acid Number	< 0.08	mg KOH/g	< 0.08	mg KOH/g	BRCP 4625
Hydrolytic Stability, TAN Change ²	0.11	mg KOH/g	0.11	mg KOH/g	ASTM D2619
Thermal	Typical Value	_	Typical Value		Test Based On
Density Correction Factor ²		(g/cm³)/°C		(g/cm³)/°C	ASTM D1250
Fire Point, COC ²	478	°F	248		ASTM D92
Flash Point, PMCC ²	338	°F	170	°C	ASTM D93
Evaporation Loss ² (401°F (205°C), 6.5 hr)	37.0	wt%	37.0	wt%	ASTM D972 (mod)
Performance	Typical Value	(English)	Typical Value	(CI)	Test Based On
RPVOT ³ (With AO)	> 1210		> 1210		ASTM D2272
Biodegradation ²	78.5		78.5		OECD 301F
Biodegradation	70.5	70	70.3	70	OLCD 3011
Solubility	Typical Value	(English)	Typical Value	(SI)	Test Based On
Aniline Point ²	14.4		-9.8		ASTM D611
Kauri-Butanol Value ²	84.5		84.5		ASTM D1133
Elastomer Compatibility, Fluoroelastomer	Typical Value		Typical Value		Test Based On
Volume Change ²	8.6	%	8.6	%	ASTM D471
Hardness Change ²	-7		-7		ASTM D471
Tensile Strength Change ²	-22.0	%	-22.0	%	ASTM D471
Elongation Change ²	-2.4	%	-2.4	%	ASTM D471

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

- ¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.
- ² Single sample or two sample average determinations
- ³ 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

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