

Esterex™ 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 East - Asia Pacific	- Europe - Latin America	North America
Revision Date	07/01/2019		

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	3.2 mm ² /s	
104°F (40°C)	12.0 cSt	12.0 mm ² /s	
-40°F (-40°C) ²	1970 cSt	1970 mm ² /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 ² (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 ²	0.11 mg KOH/g	0.11 mg KOH/g	ASTM D2619

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Density Correction Factor ²	7.33E-4 (g/cm ³)/°C	7.33E-4 (g/cm ³)/°C	ASTM D1250
Fire Point, COC ²	478 °F	248 °C	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 (SI)	Test Based On
RPVOT ³ (With AO)	> 1210 min	> 1210 min	ASTM D2272
Biodegradation ²	78.5 %	78.5 %	OECD 301F

Solubility	Typical Value (English)	Typical Value (SI)	Test Based On
Aniline Point ²	14.4 °F	-9.8 °C	ASTM D611
Kauri-Butanol Value ²	84.5	84.5	ASTM D1133

Elastomer Compatibility, Fluoroelastomer	Typical Value (English)	Typical Value (SI)	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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