

Esterex™ A32

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	<ul style="list-style-type: none"> ▪ Africa & Middle East ▪ Asia Pacific 	<ul style="list-style-type: none"> ▪ Europe ▪ Latin America 	<ul style="list-style-type: none"> ▪ North America
Revision Date	▪ 05/01/2020		

Basics	Typical Value (English)	Typical Value (SI)	Test Based On
Specific Gravity (68°F (20°C))	0.928	0.928	BRCP 4843
Appearance	Bright & Clear	Bright & Clear	Visual
Color	< 0.5	< 0.5	ASTM D1500
Kinematic Viscosity			ASTM D445
212°F (100°C)	2.8 cSt	2.8 mm ² /s	
104°F (40°C)	9.5 cSt	9.5 mm ² /s	
-40°F (-40°C) ²	985 cSt	985 mm ² /s	
Viscosity Index	149	149	ASTM D2270
Pour Point	< -85 °F	< -65 °C	ASTM D5950/D97
Flash Point, COC	405 °F	207 °C	ASTM D92
Noack Volatility	30.3 wt%	30.3 wt%	ASTM D5800/DIN 51581
Water	< 500 ppm	< 500 ppm	ASTM D6304
Refractive Index ² (77°F (25°C))	1.4465	1.4465	ASTM D1218
Total Acid Number	< 0.08 mg KOH/g	< 0.08 mg KOH/g	ASTM D974 (mod)
Hydrolytic Stability, TAN Change ²	0.10 mg KOH/g	0.10 mg KOH/g	ASTM D2619

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Density Correction Factor ²	7.56E-4 (g/cm ³)/°C	7.56E-4 (g/cm ³)/°C	ASTM D1250
Fire Point, COC ²	460 °F	238 °C	ASTM D92
Flash Point, PMCC ²	397 °F	203 °C	ASTM D93
Evaporation Loss ² (401°F (205°C), 6.5 hr)	53.0 wt%	53.0 wt%	ASTM D972 (mod)

Performance	Typical Value (English)	Typical Value (SI)	Test Based On
RPVOT			ASTM D2272
Neat ²	315 min	315 min	
With AO ³	> 1210 min	> 1210 min	
Biodegradation ²	70.2 %	70.2 %	OECD 301F

Solubility	Typical Value (English)	Typical Value (SI)	Test Based On
Aniline Point ²	< 68.0 °F	< 20.0 °C	ASTM D611
Kauri-Butanol Value ²	106.5	106.5	ASTM D1133

Elastomer Compatibility, Fluoroelastomer	Typical Value (English)	Typical Value (SI)	Test Based On
Volume Change ²	28.1 %	28.1 %	ASTM D471
Hardness Change ²	-18	-18	ASTM D471
Tensile Strength Change ²	-42.4 %	-42.4 %	ASTM D471
Elongation Change ²	-6.7 %	-6.7 %	ASTM D471

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Elastomer Compatibility, Nitrile	Typical Value (English)	Typical Value (SI)	Test Based On
Volume Change ²	41.3 %	41.3 %	ASTM D471
Hardness Change ²	-18	-18	ASTM D471
Tensile Strength Change ²	-60.7 %	-60.7 %	ASTM D471
Elongation Change ²	-44.9 %	-44.9 %	ASTM D471

Elastomer Compatibility, Polyacrylate	Typical Value (English)	Typical Value (SI)	Test Based On
Volume Change ²	72.8 %	72.8 %	ASTM D471
Hardness Change ²	-23	-23	ASTM D471
Tensile Strength Change ²	-55.0 %	-55.0 %	ASTM D471
Elongation Change ²	-22.4 %	-22.4 %	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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