ExxonMobil

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 canbe used as sole basestocks or blendstocks with other synthetic fluids inmany automotive and industrial lubricant applications. These esters are ideal in high-temperature conditions, such as reciprocating air compressors, where discharge valve cleanliness is required. This productis registered on the LuSC list and can be used to formulate EcoLabel, and other Environmentally Acceptable Lubricants.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ 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	< 0.0800	mg K/g	< 0.0800	mg K/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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