

EsterexTM A41 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	 Asia Pacific 		Latin America	 North America 	
Revision Date	• 02/09/2011				
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Basics	Typical Value	(English)	Typical Value	(SI)	Test Based On
Specific Gravity (60.1°F (15.6°C))	0.921		0.921		ASTM D4052
Appearance	Bright & Clear		Bright & Clear		Visual
Color	< 0.5		< 0.5		ASTM D1500
Kinematic Viscosity				2.4	ASTM D445
212°F (100°C)		cSt		mm²/s	
104°F (40°C)	14.0			mm²/s	
-40°F (-40°C) ²	3286	cSt		mm²/s	
Viscosity Index	144		144		ASTM D2270
Pour Point	-71		-57		ASTM D5950/D97
Flash Point, COC	448		231		ASTM D92
Noack Volatility	15.6	wt%	15.6	wt%	ASTM D5800/DIN 51581
Water	< 500	ppm	< 500	ppm	ASTM E1064
Refractive Index ² (77°F (25°C))	1.4505		1.4505		ASTM D1218
Total Acid Number	0.01	mg KOH/g	0.01	mg KOH/g	ASTM D974 (mod)
Hydrolytic Stability, TAN Change ²	0.13	mg KOH/g	0.13	mg KOH/g	ASTM D2619
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Density Correction Factor ²		(g/cm³)/°C	7.18E-4	(g/cm³)/°C	ASTM D1250
Fire Point, COC ²	480	°F	249	°C	ASTM D92
Flash Point, PMCC ²	394	°F	201	°C	ASTM D93
Evaporation Loss ² (401°F (205°C), 6.5 hr)	22.3	wt%	22.3	wt%	ASTM D972 (mod)
Performance	Typical Value	(Fnalish)	Typical Value	(SI)	Test Based On
RPVOT	7,500.10.00	(=119111)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(=:)	ASTM D2272
Neat ²	415	min	415	min	
With AO ³	> 1210	min	> 1210	min	
Biodegradation ²	76.5	%	76.5	%	OECD 301F
Solubility	Typical Value	(English)	Typical Value	(SI)	Test Based On
Aniline Point ²	< 68.0		< 20.0		ASTM D611
Kauri-Butanol Value ²	72.0	·	72.0		ASTM D1133
Electores Compatibility Flynes elector	Typical Value	(English)	Tire in all Value	(CI)	Test Based On
Elastomer Compatibility, Fluoroelastomer	lypical value 8.3		Typical Value 8.3		ASTM D471
Volume Change ²		/0		/0	
Hardness Change ²	-4		-4		ASTM D471
Tensile Strength Change ²	-6.6		-6.6		ASTM D471
Elongation Change ²	-9.1	%	-9.1	%	ASTM D471

 Effective Date: 02/09/2011
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 Page: 1 of 2



Elastomer Compatibility, Nitrile	Typical Value	(English)	Typical Value	(SI)	Test Based On
Volume Change ²	23.5	%	23.5	%	ASTM D471
Hardness Change ²	-12		-12		ASTM D471
Tensile Strength Change ²	-50.5	%	-50.5	%	ASTM D471
Elongation Change ²	-41.3	%	-41.3	%	ASTM D471
Elastomer Compatibility, Polyacrylate	Typical Value	(English)	Typical Value	(SI)	Test Based On
Volume Change ²	42.7	%	42.7	%	ASTM D471
Hardness Change ²	-17		-17		ASTM D471
Tensile Strength Change ²	-38.3	%	-38.3	%	ASTM D471
Elongation Change ²	-22.0	0/_	-22.0	0/	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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