



## GREEN FRIX S.A. – Bio-based Cross-linked oils

Ref :	Fadol Serie
Replaces :	17/12/2019
Effective date :	12/05/2021
Revision :	2.3

### Chemical description

Oligomerisation and polymerisation product obtained by plasma treatment of vegetable oil mono- and polyunsaturated C16-C22 triglycerides

**EC number: 948-916-8**

**CAS number: 68002-72-2**

**RTC number: 1518 00 91 80**



Nonfood Compounds  
(HX-1)



GREEN FRIX - FADOL Line				Physico-chemical properties									Legal				
Product Name		Kinematic Viscosity at 40° C (mm <sup>2</sup> /s)		Kinematic Viscosity at 100° C (mm <sup>2</sup> /s)	VI (Viscosity Index)	Biodegradability (OECD 301B)	Pour Point (°C) (ASTM D5950)	Freezing point (OECD 102)	Flash point (EN ISO 2719-A)	Internal quality indicator	Color	Appearance	NSF HH	LuSC-List	EC number	CAS	
		Min	Max														
Col Sun Rin Lin ...	FADOL	68	61,2	74,8	13,6	>200	>60%	0° C*	<-80° C	237,5° C	≥97%	Yellow	Clear	✓	✓	948-916-8	N/A
		100	90,0	110,0	18,2	>200							Clear	On request	On request	948-916-9	N/A
		220	198,0	242,0	35,9	>210							Cloudy	On request	On request	948-916-8	N/A
		320	288,0	352,0	48,2	>210							Cloudy	On request	On request	948-916-9	N/A
		500	450,0	550,0	70	>215							Cloudy	On request	On request	948-916-8	N/A
		800	720,0	880,0	112-135	240<...<280							Cloudy	✓	On request	N/A	68002-72-2
		1000	900,0	1100,0	135-176	240<...<290							Cloudy	On request	✓	N/A	68002-72-3
		1500	1350,0	1650,0	200-250	270<...<310							Cloudy	On request	On request	N/A	68002-72-2
		2000	1800,0	2200,0	265-330	280<...<330							Cloudy	✓	On request	N/A	68002-72-2
		2300	2070,0	2530,0	305-380	280<...<340							Cloudy	On request	✓	N/A	68002-72-2
		3000	2700,0	3300,0	395-520	300<...<360							Cloudy	On request	✓	N/A	68002-72-2
		6000	5400,0	6600,0	942	>350							Cloudy	✓	On request	N/A	68002-72-2

### Disclaimer :

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### Use

Typically used in formulation as non-Newtonian viscosity and friction modifier (from 0.1 to 100%)

Field of applications: any lubricant (EAL, Eco-labelled, food grade approved, greases, engine oils, ...)

GREEN FRIX - FADOL Line			Rheology											
Product Name		Kinematic Viscosity at 40°C (mm <sup>2</sup> /s)		Non-Newtonian Behavior	Plasma Mode -S			Plasma Mode -D			Plasma Mode -P			
		Min	Max		Shear-thinning	Relaxation time (97%) (s)	Relaxation time (99,8%) (s)	Shear-thinning	Relaxation time (97%) (s)	Relaxation time (99,8%) (s)	Shear-thinning	Relaxation time (97%) (s)	Relaxation time (99,8%) (s)	
Col Sun Rin Lin ...	FADOL	68	61,2	74,8	No	0%	0	0						
		100	90,0	110,0	No	0%	0	0						
		220	198,0	242,0	No	0%	0	0						
		320	288,0	352,0	No	0%	0	0						
		500	450,0	550,0	No	0%	0	0						
		800	720,0	880,0	Yes	<7,5%	<10	<20	14,5 ± 5 %	<10	<200	38,0 ± 5 %	<25	<200
		1000	900,0	1100,0	Yes	8,0 ± 2,5%	<10	<20	20,0 ± 5 %	<50	<200	45,0 ± 5 %	<50	>200
		1500	1350,0	1650,0	Yes	23,0 ± 5 %	<10	<20	32,5 ± 5 %	<50	<200	56,0 ± 5 %	<50	>200
		2000	1800,0	2200,0	Yes	32,0 ± 5 %	<10	<20	42,5 ± 5 %	<50	<200	61,0 ± 5 %	<50	>200
		2300	2070,0	2530,0	Yes	35,0 ± 5 %	<10	<20	47,0 ± 5 %	<50	<200	62,5 ± 5 %	<50	>200
3000	2700,0	3300,0	Yes	39,0 ± 5 %	<10	<20	55,0 ± 5 %	<50	<200	63,5 ± 5 %	<50	>200		
6000	5400,0	6600,0	Yes	-	<10	<20	70,0 ± 5 %	<50	<200	-	<50	>200		

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