



Eni Clematis TD, classified as TDAE (Treated Distillate Aromatic Extract), is a safe oil with a low content of polycyclic aromatic hydrocarbons (PAHs), produced by a solvent extraction of traditional distillate aromatic extract (DAE) oil.

Eni Clematis TD is used as process and extender oil in the production of OE SBR and BR and as free oil in the manufacturing of tyres and other rubber goods.

PROPERTIES

Properties	Unit	Values		Typical	Method
		Min	Max		
Density at 15°C	kg/m ³	940	970		ASTM D 1298
Viscosity at 40°C	mm ² /s	320	500		ASTM D 445
Viscosity at 100°C	mm ² /s	17.0	22.0		ASTM D 445
Flash point (COC)	°C	240			ASTM D 92
Flash point P.M.	°C	230			ASTM D 93
Pour point	°C		30		ASTM D 97, 7346
Aniline point	°C	60	75		ASTM D 611
VGC (calculated with viscosity at 100 °C)	-	0.86	0.93		ASTM D 2501
Glass transition temperature DSC	°C			<-40	ASTM E 1536
Ca/Cn/Cp	% m/m			21/21/58	ASTM D 3238
Ca/Cn/Cp VGC ASTM D2501 (calc. with viscosity at 100°C)	% m/m			20/21/59	ASTM D 2140
Ca/Cn/Cp VGC ASTM D2501 (calc. with viscosity at 100°C no sulphur)	% m/m			23/29/48	ASTM D 2140
Refractive index at 20 °C	-	1.52	1.54		ASTM D 1747
Class of hydrocarbons by Clay gel chromatography	-				ASTM D 2007
Saturated	% m/m			41	
Polars	% m/m			4	





Properties	Unit	Min	Max	Typical	Method
Aromatics	% m/m			55	
Sulphur	% m/m		3		ASTM D 1552; 4294; 2622
Water content	% m/m		0.5		ASTM D 6304
Distillation at 760 mmHg	-				EN 15199
5% volume	°C			420	
10% volume	°C			440	
20% vol.	°C			460	
50% volume	°C			490	
DMSO extract	% m/m		2.9		IP 346
Polycyclic Aromatic Hydrocarbons	mg/kg				EN 16143
Sum of	-		<10		EN 16143
-Benzo(a)pirene(BaP)	-		<1		EN 16143
-Benzo(e)pirene(BeP)	-				EN 16143
-Benzo(a)antracene(BaA)	-				EN 16143
- Crisene (CHR)	-				EN 16143
-Benzo(b)fluorantene(BbFA)	-				EN 16143
-Benzo(j)fluorantene(BjFA)	-				EN 16143
-Benzo(k)fluorantene(BkFA)	-				EN 16143
- Dibenzo(a,h)antracene(DBAh A)	-				EN 16143

(1) Legal limits – Reg. REACH, Annex XVII, Point 50 regarding the extender oils used for the production of tyres or part of tyres. It does not apply to other uses.

