

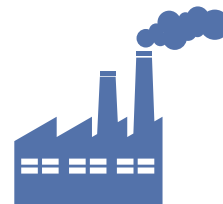
Eni Clematis RL, classified as RAE LA (Residual Aromatic Extract Low Aromatic), is a safe oil, not carcinogenic, with a low content of polycyclic aromatic hydrocarbons (PAHs) and a low value of mutagenicity index (MI).

Eni Clematis RL is a high viscosity, dark green oil manufactured from a solvent extraction of de-asphalted vacuum residue. It is used as extender oil in the production of rubbers and in the manufacturing of tyres and other rubber goods.

TECHNICAL CHARACTERISTICS

Eni Clematis RL	UNIT	VALUE			TEST METHOD
		min	max	typical	
Colour	-			D8	ASTM D 1500; 6045
Density at 15°C	kg/m ³	940	1005	973	ASTM D1298; 4052
Viscosity at 100°C	mm ² /s	45	75	53	ASTM D 445
Flash Point, COC	°C	210		240	ASTM D 92
Flash Point, PM	°C	200		230	ASTM D 93
Pour Point	°C		20		ASTM D 97; 7346
Aniline Point	°C	45	75	59	ASTM D 611
Viscosity Gravity Costant	-	0.87	0.94		ASTM D 2501
Ca/Cn/Cp	% m			30/10/60	ASTM D 3238
Ca/Cn/Cp	% m			28/15/57	ASTM D 2140
Class of hydrocarbons by Clay gel chromatography - saturated - polars - aromatics	% m			20 10 70	ASTM D 2007
Refractive Index at 20°C	-	1.5350	1.5600		MP007-04; ASTM D 1747; 1218
Glass transition temperature DSC	°C			-35	ASTM E 1356
Sulphur	% (m/m)		6		ASTM D 1552; 4294; 2622
Distillation at 760 mmHg: - 5% vol - 10% vol - 20% vol - 50% vol	°C			435 460 500 540	EN 15199-2 ASTM D 1160





TECHNICAL CHARACTERISTICS

Eni Clematis RL	UNIT	VALUE			TEST METHOD
		min	max	typical	
Polycyclic aromatic hydrocarbons (PAHs): - Benzo(a)pyrene(BaP) Sum of 8 PAHs: - Benzo(a)pyrene(BaP) - Benzo(e)pyrene(BeP) - Benzo(a)anthracene(BaA) - Chrysene(CHR) - Benzo(b)fluoranthene(BbFA) - Benzo(j)fluoranthene(BjFA) - Benzo(k)fluoranthene(BkFA) - Dibenzo(a,h)anthracene (DBAhA)	(1) mg/kg		<1 <10		EN 16143
Mutagenicity Index (Ames mod.)	(2)		<0.4		ASTM E 1687

(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.

(2) Limit value correlated with lack of classification as carcinogenic - see REACH Registration dossier.

