Shell **Flavex** *Oil 595*

Aromatic process oil (RAE-type)

Shell Flavex Oil 595 is a high viscosity aromatic process oil made from a residual oil fraction. This oil type is also known as RAE (residual aromatic extract). It is a potential substitute for distillate aromatic extracts (DAE) used as extender oils in rubber and tyres. It fully meets the requirements of EU Tyre Directive 2005/69/EC.

DESIGNED TO MEET CHALLENGES

Specifications, Approvals & Recommendations

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Typical Physical Characteristics

Properties			Method	Shell Flavex Oil 595
Colour (ASTM)			ASTM D1500	D8.0
Density	@15°C	kg/m^3	ISO 12185	980
Refractive Index	@20°C		ASTM D1218	1.5500
Flashpoint (COC)		°C	ISO 2592	300
Pour Point		°C	ISO 3016	15
Kinematic Viscosity	@20°C	mm^2/s	ISO 3104	-
Kinematic Viscosity	@100°C	mm^2/s	ISO 3104	60.0
Sulphur (X-Ray)		% m/m	ISO 14596	4
Carbon Type Distribution : C/A (S-corr.)		%	DIN 51378/ASTM D2140 mod.	29
Carbon Type Distribution : C/N (S-corr.)		%	DIN 51378/ASTM D2140 mod.	15
Carbon Type Distribution : C/P (S-corr.)		%	DIN 51378/ASTM D2140 mod.	56
Refractive Intercept (RI)			DIN 51378	1.060
Viscosity Gravity Constant (VGC)			DIN 51378	0.916
Aniline Point		°C	ISO 2977	66
Evaporation Loss (22 hrs)	@107°C	% m/m	ASTM D972	<0.1
Noack Volatility (1 hr)	@250°C	% m/m	ASTM D5800	0.5
Carbon Type Distribution : C/A (non S-corr.)		%	DIN 51378/ASTM D2140 mod.	34
Carbon Type Distribution : C/N (non S-corr.)		%	DIN 51378/ASTM D2140 mod.	28
Carbon Type Distribution : C/P (non S-corr.)		%	DIN 51378/ASTM D2140 mod.	38
Benzo(a)pyrene Content		mg/kg		<1
Sum of 8 PAH Contents		mg/kg		<10

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

Health, Safety & Environment

- **Health and Safety**

  Shell Flavex Oil 595 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

  Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

  Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from http://www.epc.shell.com/

- **Protect the Environment**

  Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

- **Advice**

  Advice on applications not covered here may be obtained from your Shell representative.