



Shell Gravex Oil 921

Naphthenic process oil

Shell Gravex Oils are a range of severely hydrotreated naphthenic process oils with good solvency properties. They are general purpose process oils for use for example as extender or carrier fluids.

DESIGNED TO MEET CHALLENGES

Specifications, Approvals & Recommendations

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk, or the OEM Approvals website.

Typical Physical Characteristics

Properties			Method	Shell Gravex Oil 921
Colour (ASTM)			ASTM D1500	0.5
Density	@15°C	kg/m ³	ISO 12185	903
Refractive Index	@20°C		ASTM D1218	1.494
Flashpoint (COC)		°C	ISO 2592	170
Pour Point		°C	ISO 3016	-45
Kinematic Viscosity	@20°C	mm ² /s	ISO 3104	68
Kinematic Viscosity	@40°C	mm ² /s	ISO 3104	22
Kinematic Viscosity	@100°C	mm ² /s	ISO 3104	3.7
Sulphur (X-Ray)		% m/m	ISO 14596	0.1
Carbon Type Distribution : C/A (S-corr.)		%	DIN 51378/ASTM D2140 mod.	10
Carbon Type Distribution : C/N (S-corr.)		%	DIN 51378/ASTM D2140 mod.	45
Carbon Type Distribution : C/P (S-corr.)		%	DIN 51378/ASTM D2140 mod.	45
Refractive Intercept (RI)			DIN 51378	1.0438
Viscosity Gravity Constant (VGC)			DIN 51378	0.863
Aniline Point		°C	ISO 2977	73
Clay Gel Analysis : Polar Components		% m/m	ASTM D2007	0.1
Clay Gel Analysis : Aromatic Components		% m/m	ASTM D2007	31.9
Clay Gel Analysis : Saturated Components		% m/m	ASTM D2007	68.0
Evaporation Loss (22 hrs)	@107°C	% m/m	ASTM D972	6.5
Noack Volatility (1 hr)	@250°C	% m/m	ASTM D5800	59
PCA Content (DMSO Method)		% m/m	IP 346	<3.0

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 Gravex Oil 921 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.