

Shell Ondina Oil 933

Medicinal white oil



Shell Ondina Oils are highly refined, non-stabilised, aromatic-free paraffinic or naphthenic white mineral oils complying with the stringent pharmacopoeia purity requirements. Ondina oils can be used in pharmaceutical, food packaging, cosmetic and other applications, where this high purity is required by legislation or important for the quality of the finished product.

Typical Physical Characteristics

		Ondina 933
Specifications Europ.Pharmacopoeia 4 US Pharmacopoeia 25 / NF 20 EU Directive 2002/72/EC		Liquid Paraffin Mineral Oil no
Colour (Saybolt)	ASTM D 156	+30
Density at 15 °C kg/m ³	ISO 12185	883
Refractive Index at 20 °C	ASTM D 1218	1.480
Flashpoint COC °C	ISO 2592	235
Pour Point °C	ISO 3016	-30
Dynamic Viscosity at 20 °C mPa*s	ISO 3104	212
Kinematic Viscosity	ISO 3104	
at 20 °C mm ² /s		250
at 40 °C mm ² /s		67
at 100 °C mm ² /s		7.9
Sulphur (X-Ray) %m/m	ISO 14596	< 0.001
Carbon Type Distribution	DIN 51378 / ASTM D 2140	
C/A (S-corr.)		
C/N (S-corr.) %	mod.	42
C/P (S-corr.) %		58
Refractive Intercept (RI)	DIN 51378	1.0400
Viscosity Gravity Constant (VGC)	DIN 51378	0.819
Aniline Point °C	ISO 2977	108
Evaporation Loss (22h/107°C) %m/m	ASTM D 972	0.4
Noack Volatility (1h/250°C) %m/m	ASTM D 5800	19
Molecular Weight g/mol	ASTM D 2502	415
Carbon Number at 5 % Distill. Point	ASTM D 2887mod	C23
Purity Requirements for Medicinal White Oils acc. Europ.Pharm. 3/4; US Pharm. 25; US FDA §172.878, FDA §178.3620(a)		pass

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