



# Shell Ondina X 415

## GtL Medicinal White Oil

Shell Ondina X 415 is a hydrocarbon fluid based on Shell Gas-to-Liquid Technology. It is fully saturated with a high degree of iso paraffinic structures. Shell Ondina X 415 fulfills the stringent international pharmacopoeia purity requirements.

### 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 Ondina X 415
Colour (Saybolt)			ASTM D156	+30
Density	@ 15°C	kg/m <sup>3</sup>	ISO 12185	806
Refractive Index	@ 20°C		ASTM D1218	1.45
Viscosity Index			ISO 2909	118
Flashpoint COC		°C	ISO 2592	200
Pour Point		°C	ISO 3016	-39
Kinematic Viscosity	@ 20°C	mm <sup>2</sup> /s	ISO 3104	19
Kinematic Viscosity	@ 40°C	mm <sup>2</sup> /s	ISO 3104	9.8
Kinematic Viscosity	@ 100°C	mm <sup>2</sup> /s	ISO 3104	2.7
Aniline Point		°C	ISO 2977	114
Evaporation Loss	22h/107°C	%m	ASTM D927	0.75
Noack Volatility	1h/250°C	%m	ASTM D5800	40
Purity				
Medicinal White Oil	Latest Version		EU Pharm.	Meet
Medicinal White Oil	Latest Version		US Pharm	Meet
Medicinal White Oil			FDA § 172.878	Meet
Medicinal White Oil			FDA § 178.3620 (a)	Meet

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 Ondina X 415 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 your Shell representative.

- **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 or technical help desks.