Technical Data Sheet

Shell **Ondina** *X 420*

GtL Medicinal White Oil

Shell Ondina X 420 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 420 fulfills the stringent international pharmacopoeia purity requirements.

DESIGNED TO MEET CHALLENGES

Specifications, Approvals & Recommendations

This product meets the requirements of:

- FDA 21 CFR 178.3620(a), purity level
- FDA 21 CFR 172.878, purity level
- European Pharmacopoeia, purity level
- US Pharmacopeia/National Formulary, purity level
- German Pharmacopoeia, Synthetic Light Liquid Paraffin

This product is registered to the requirements of:

- NSF H1, HX-1, 3H

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

Typical Physical Characteristics

Properties			Method	Shell Ondina X 420
Colour (Saybolt)			ASTM D156	30
Density	@ 15°C	kg/m³	ISO 12185	816
Refractive Index	@ 20°C		ASTM D1218	1.454
Viscosity Index			ISO 2909	130
Flashpoint COC		°C	ISO 2592	225
Pour Point		°C	ISO 3016	-36
Kinematic Viscosity	@ 20°C	mm²/s	ISO 3104	40
Kinematic Viscosity	@ 40°C	mm²/s	ISO 3104	18
Kinematic Viscosity	@ 100°C	mm²/s	ISO 3104	4.1
Aniline Point		°C	ISO 2977	120
Evaporation Loss	22h/107°C	%m/m	ASTM D972	0.12
Noack Volatility	1h/250°C	%m	ASTM D5800	12

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 420 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.

  Guidance on Health and Safety is available on the appropriate 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 helpdesks.