



Shell Risella X 415

GtL Technical White Oil

Risella X 415 is a high quality and high purity technical white oil made from Shell's proprietary Gas-to-Liquid technology from natural gas. This products is a highly refined paraffinic process oil which offers excellent performance for select applications in industrial, chemical, and agriculture applications.

DESIGNED TO MEET CHALLENGES

Main Applications

- Risella X 415 is suitable for industrial and chemical applications such as metal working, coke oven, isolation fluid, polish, aerosol and paints.
- In agriculture, Risella X 415 can be used for crop protection via spray oil application on bananas, citrus and etc. It is approved by EPA as an inert ingredient in pesticide formulations for crops. It can also be used for fertilizer anti-caking and anti-dust purposes.

Performance, Features & Benefits

- Key characteristics include good solvency and low aromatics.

- This product is classified as Readily biodegradable by OECD 301B and; H1 Category by NSF International
- Readily biodegradable*
- High Degree of Biodegradability
Exceeds the normal requirement of 60% biodegradation in the OECD 301B test after 28 days.

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 Risella X 415 |
|---|-----------|--------------------|------------------|---------------------|
| Colour (Saybolt) | | | ASTM D156 | +30 |
| Density | @ 15°C | kg/m ³ | ISO 12185 | 806 |
| Refractive Index | @ 20°C | | ASTM D1218 | 1.450 |
| Viscosity Index | | | ISO 2909 | 118 |
| Flashpoint COC | | °C | ISO 2592 | 200 |
| Pour Point | | °C | ISO 3016 | -39 |
| Kinematic Viscosity | @ 20°C | mm ² /s | ISO 3104 | 18.0 |
| Kinematic Viscosity | @ 40°C | mm ² /s | ISO 3104 | 9.3 |
| Kinematic Viscosity | @ 100°C | mm ² /s | ISO 3104 | 2.6 |
| Aniline Point | | °C | ISO 2977 | 114 |
| Sulphur | | mg/kg | ISO 14596 | <5 |
| Evaporation Loss | 22h/107°C | %m | ASTM D972 | 0.75 |
| Noack Volatility | 1h/250°C | %m | ASTM D5800 | 40 |
| Purity Requirements for Technical White Oil | | | FDA 178.3620 (b) | Pass |

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 Risella 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 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.