

Shell Ondina Oil 68

Medicinal white oils

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

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

· High purity

Refined to the highest degree of purity removing all aromatics; consist only of chemically inert molecules

· Optimal quality control

Segregated product lines during production, storage, blending and filling; extensive laboratory control testing

· Excellent stability

Exceeding oxidation and light stability of standard process oils.

Main Applications

· Cosmetic and Pharmaceuticals

Components in cosmetic creams, lotions, oils, toiletries etc.

· Food packaging

Extender oil in polystyrene and other plastics, price labels.

· Hygiene articles

Extender oil in thermoplastic TPE (e.g. SIS, SEPS), TPV and other elastomers.

Technical applications and car components

Carrier fluid and extender oil for a variety of high quality applications, where colour and stability is important.

Suitable when PVC is replaced by TPE elastomers.

• Toys and similar articles

Extender oil in TPE elastomers (e.g. SBS, SEBS)

· Machinery lubrication

The use of medicinal white oils in direct and indirect food applications, e.g. as food additives or for food packaging, is regulated by international specifications supplemented by local legislation. These requirements may deviate from country to country and must be taken into account by the user.

Specifications, Approvals & Recommendations

- European Pharmacopoeia 3rd Edition
- Japanese Pharmacopeia XIII
- US Pharmacopoeia 29th and 30th Editions
- US FDA §172.878 ("White Mineral Oil") for direct food contact
- US FDA §178.3620(a) for indirect food contact
- FDA specifications, where above specified oils are positively listed e.g. §173.340, §175.105, §175.210, §175.230, §175.300, §176.170, §176.180, §176.200, §176.210, §177.1200, §177.2260, §177.2600, §177.2800, §178.3120, §178.3570, §178.3740, §178.3910, §573.680.
- UK 'The Mineral Hydrocarbon in Food Regulations 1966'
- European Directive 2002/72/EC for plastic materials coming into contact with foodstuffs

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

Typical Physical Characteristics

| Properties | | | Method | Shell Ondina Oil 68 |
|---|--------|---------------|----------------|---------------------|
| ISO Viscosity Grade | | | ISO 3448 | 68 |
| Specifications - Europ. Pharmacopoeia | | | | Liquid Paraffin |
| Specifications - US Pharmacopoeia | | | | Mineral Oil |
| Colour (Saybolt) | | | ASTM D156 | +30 |
| Density | @15°C | kg/m³ | ISO 12185 | 864 |
| Flashpoint (COC) | | °C | ISO 2592 | 240 |
| Pour Point | | °C | ISO 3016 | -9 |
| Kinematic Viscosity | @40°C | mm²/s | ISO 3104 | 68 |
| Kinematic Viscosity | @100°C | mm²/s | ISO 3104 | 9.7 |
| Molecular Weight | | g/mol minimum | ASTM D2502 | 479 |
| Hydrocarbon Content : With carbon number less than 25 | | % m/m maximum | ASTM D2887 mod | 5 |

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 Oil 68 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.