



Previous Name: Shell Vitrea M

Shell Morlina S1 B

Industrial Bearing & Circulating Oils

- RELIABLE PROTECTION
- INDUSTRIAL APPLICATION
- WATER SHEDDING

Shell Morlina S1 B oils are high performance oils designed to provide excellent protection for most industrial bearing and circulating oil system applications, particularly those processes where water shedding (demulsification) is important for the life of the equipment. Meets the most basic requirements of the Morgan and Danieli standards for common bearing oils.

Performance Benefits

- **Good oil life – Maintenance saving**

Shell Morlina S1 B oils use carefully chosen components to help provide consistent performance and protection throughout the maintenance interval.

- **Reliable wear & corrosion protection**

Shell Morlina S1 B oils help prolong the life of bearings and circulating systems through:

- Good water separation characteristics that help ensure that critical oil films are retained between highly loaded parts.
- Good air release characteristics to minimize cavitation and associated damage to circulating pumps.
- Helps protect against corrosion, even in the presence of water.

- **Maintaining system efficiency**

Shell Morlina S1 B oils are blended with high quality, solvent refined base oils that promote good water separation and air release to ensure the efficient lubrication of the machines and systems.

Applications

- **Machine circulation systems**
- **Oil lubricated bearings**

Suitable for most plain and rolling element bearings in general industrial applications.

- **Roll-neck bearings**

- **Enclosed industrial gear systems**

Low or moderately loaded enclosed gears where EP performance is not required.

Paint Compatibility

Shell Morlina S1 B oils are compatible with seal materials and paints normally specified for use with mineral oils.

Specification and Approvals

Shell Morlina S1 B oils meet the requirements of:

- Morgan MORGOIL® Lubricant Specification (New Oil Rev. 1.1)
- Danieli Standard Oil 6.124249.F
- DIN 51517-1 – Oil Type C

MORGOIL is a registered trademark of the Morgan Construction Company.

Health and Safety

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 authorized collection point. Do not discharge into drains, soil or water.



Advice

Advice on applications not covered in this leaflet may be obtained from your Shell representative.

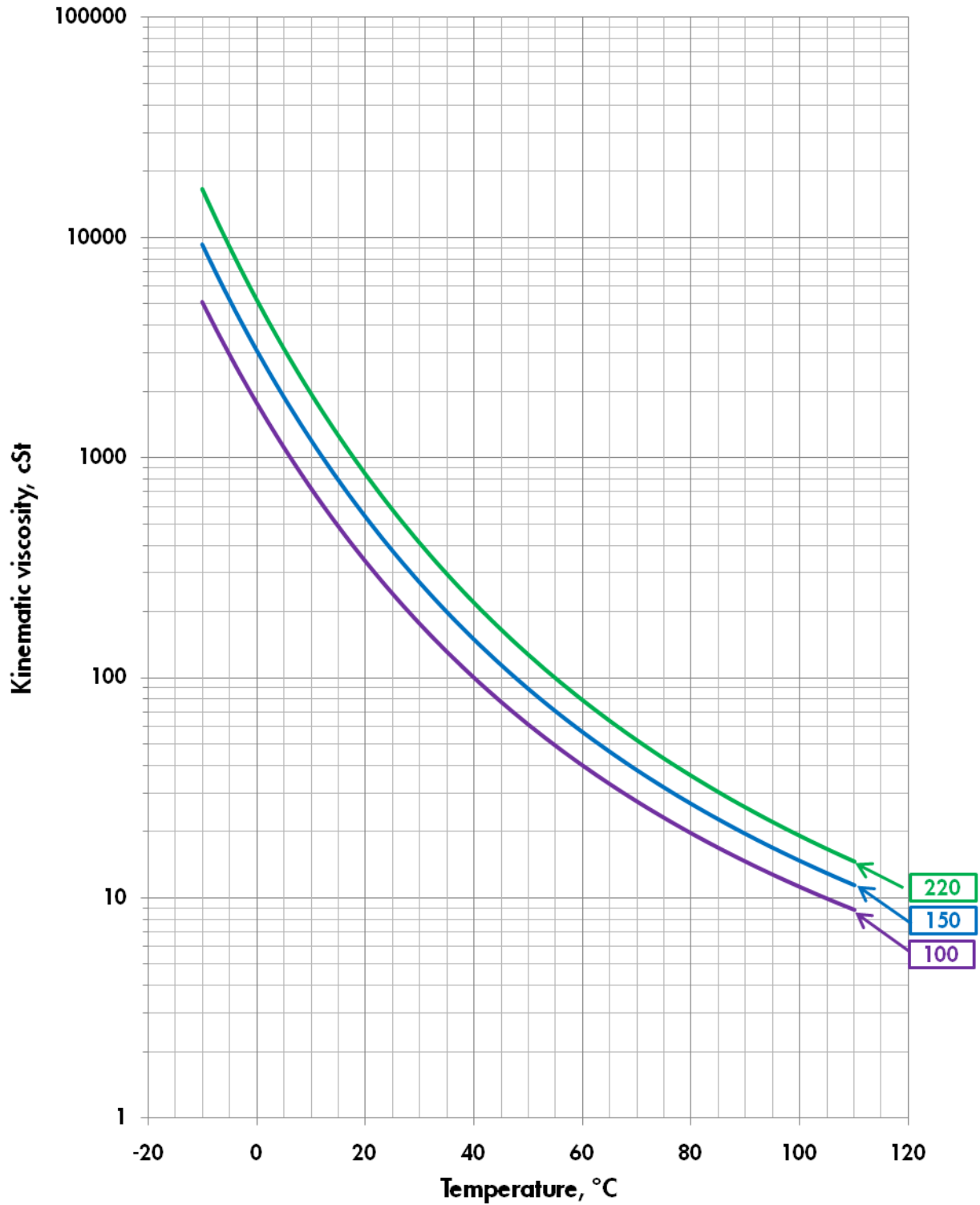
Typical Physical Characteristics

| Shell Morlina S1 B | | 100 | 150 | 220 | 320 | 460 | 680 |
|------------------------|--------------------|------|------|------|------|------|------|
| ISO Viscosity Grade | | 100 | 150 | 220 | 320 | 460 | 680 |
| Kinematic Viscosity | ASTM D 445 | | | | | | |
| at 40°C | mm ² /s | 100 | 150 | 220 | 320 | 460 | 680 |
| at 100°C | mm ² /s | 11,2 | 14,8 | 19,2 | 24,6 | 31,0 | 37,0 |
| Density at 15°C | kg/m ³ | 877 | 882 | 887 | 891 | 896 | 910 |
| Viscosity Index | ISO 2909 | 95 | 95 | 95 | 95 | 95 | 80 |
| Flash Point COC | ISO 2592 | 243 | 225 | 249 | 255 | 260 | 300 |
| Pour Point | ISO 3016 | -9 | -6 | -6 | -6 | -6 | -3 |
| Rust, Distilled Water | ASTM D 665A | Pass | Pass | Pass | Pass | Pass | Pass |
| Emulsion Test, minutes | ASTM D1401 | 10 | 10 | 10 | 20 | 30 | 30 |

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



Viscosity - Temperature Diagram for Shell Morlina S1 B





Viscosity - Temperature Diagram for Shell Morlina S1 B

