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Technical Data Sheet

Formerly Known As: **Shell Morlina Oils**

Shell Morlina S2 B 220

Industrial Bearing & Circulating Oils

Shell Morlina S2 B oils are high performance oils designed to provide outstanding oxidation and water separation protection for most general industrial bearing and circulating oil system applications and certain other industrial applications which do not require oils with extreme pressure (EP) properties. These oils meet the requirements of the Morgan Construction Company and Danieli for common bearing oils.

- Reliable Protection
- Industrial Application
- Water Shedding

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Long oil life – Maintenance saving**

Shell Morlina S2 B oils are formulated with a well proven rust and oxidation inhibitor additive package that helps provide consistent performance and protection throughout the maintenance interval.

- **Reliable wear & corrosion protection**

Shell Morlina S2 B oils help prolong the life of bearings and circulating systems through:

- Excellent water separation characteristics that helps 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, oxidation, and emulsion formation, even in the presence of water.

- **Maintaining system efficiency**

Shell Morlina S2 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.

- Machine circulation systems
- **Oil lubricated bearings**
Suitable for most plain and rolling element bearings and general industrial applications.
- **Roll-neck bearings**
- **Enclosed industrial gear systems**
Low or moderately loaded enclosed gears where EP performance is not required.
- Cylinder Lubrication for reciprocating Gas Compressors

Specifications, Approvals & Recommendations

- Danieli Standard 6.124249.F
- DIN 51517-1 C
- DIN 51517-2 CL
- Morgan MORGOIL® Lubricant Specification New Oil (Rev. 1.1) (MORGOIL is a registered trademark of the Morgan Construction Company)

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

Compatibility & Miscibility

- **Paint Compatibility**

Shell Morlina S2 B oils are compatible with seal materials and paints normally specified for use with mineral oils.

Main Applications



Typical Physical Characteristics

Properties	Method	Shell Morlina S2 B 220
ISO Viscosity Grade	ISO 3448	220
Kinematic Viscosity @40°C	mm ² /s ASTM D445	220
Kinematic Viscosity @100°C	mm ² /s ASTM D445	18.3
Density @15°C	kg/m ³ ISO 12185	891
Viscosity Index	ISO 2909	92
Flash Point (COC)	°C ISO 2592	280
Pour Point	°C ISO 3016	-15
Rust, Distilled Water	ASTM D665A	Pass
Emulsion Test - @82°C (Unless specified by *)	Mins ASTM D1401	20
Oxidation Control Test : TOST	Hrs ASTM D943	1 300+
Oxidation Control Test : RPVOT	Mins ASTM D2272	200+
Foam Test, Seq II	ml foam at 0/10 mins ASTM D892	10/0

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur. *@54°C

Health, Safety & Environment

- **Health and Safety**

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from <http://www.epc.shell.com>

- **Protect the Environment**

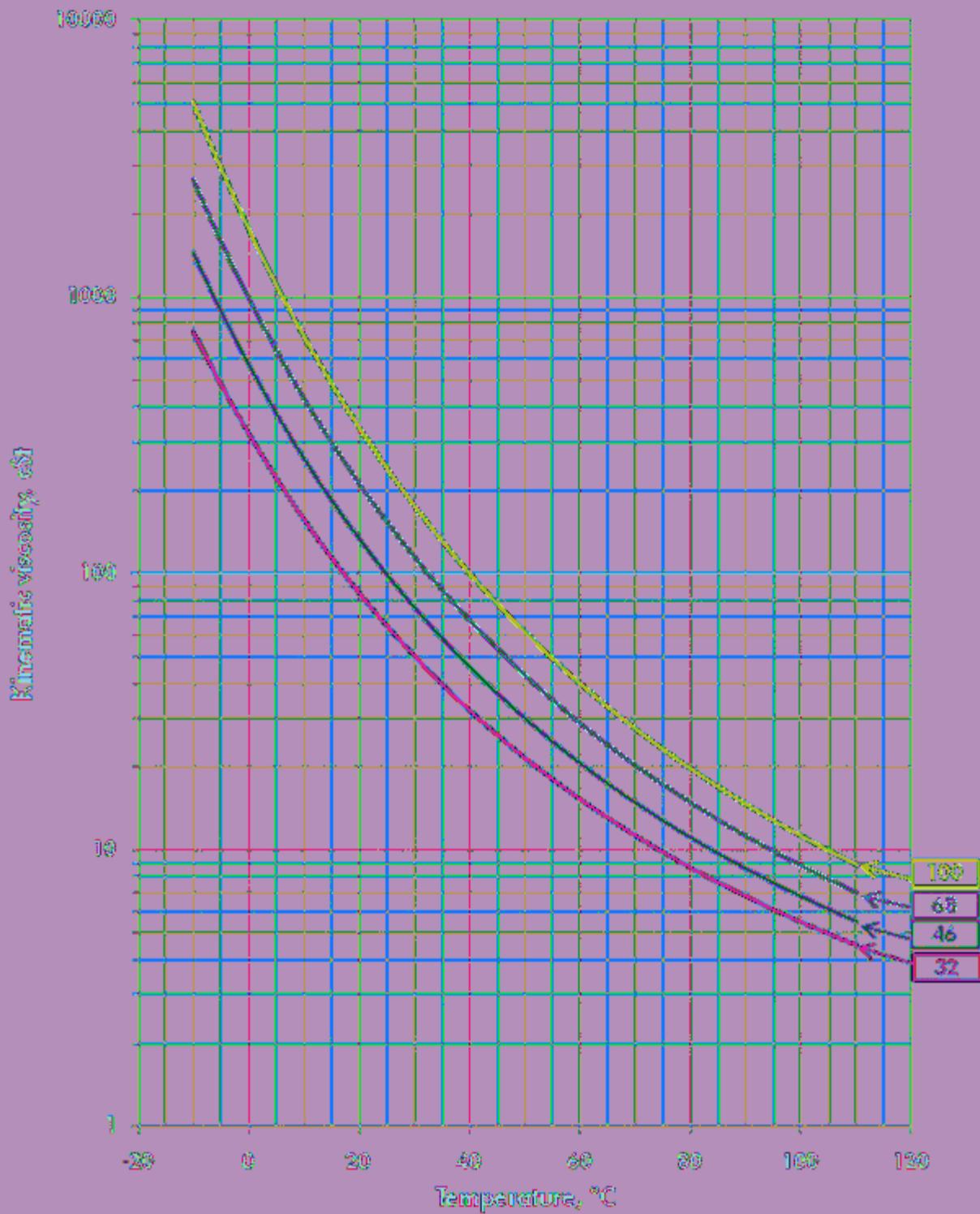
Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

- **Advice**

Advice on applications not covered here may be obtained from your Shell representative.

Viscosity - Temperature Diagram for Shell Morlina S2 B



Viscosity - Temperature Diagram for Shell Morlina S2 B

