



Previous Name: Shell Vexilla G

Shell Textile Needle Oil S2 M 32

- Reliable Performance
- Knitting and Weaving Machine Use

High Performance Textile Needle Oil

Shell Textile Needle Oil S2 M is a fully scourable low viscosity textile machinery lubricant specially developed for lubrication of the needle mechanisms of flat and circular bed knitting and weaving machines. It is based on highly refined mineral oils and contains additives to resist oil fling off, minimise wear and to provide high levels of corrosion protection.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Maintenance saving**

Shell Textile Needle Oil S2 M is developed to help prevent deposit build up on textile machinery components that may impact machine operation and maintenance intervals.

- **Excellent protection**

Provides high levels of anti-wear protection for needles and high precision, close tolerance components of needle mechanisms. It helps provide effective corrosion protection of machine components in contact with moist air and water-based size even under intermittent operating conditions.

Maintaining system efficiency

Shell Textile Needle Oil S2 M has the following characteristics that are designed to help users maintain efficiency in their production process:

Although specially developed to resist fling off, oil droplets contaminating yarn are readily removed using conventional scouring processes.

Lubrication characteristics developed to help reduce friction and energy consumption, maintenance and downtime costs.

Main Applications

- **Needle mechanisms of circular bed knitting machines**

Shell Textile Needle Oil S2 M is intended for use on circular bed knitting machines where sized yarn is not used.

Shell Textile Needle Oil S2 M is suitable for use on knitting machines producing hosiery and other knitted items from wool, cotton, rayon, silk and other yarns.

Specifications, Approvals & Recommendations

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

Compatibility & Miscibility

- **Seal and Paint Compatibility**

Shell Textile Needle Oil S2 M is compatible with all seal materials commonly specified for use with mineral oils.

Typical Physical Characteristics

Properties			Method	Shell Textile Needle Oil S2 M 32
ISO Viscosity grade				32
Kinematic Viscosity	@40°C	cSt	ASTM D445	34
Kinematic Viscosity	@100°C	cSt	ASTM D445	5.7
Viscosity index			ISO 2909	103
Density	@15°C	kg/l	ISO 12185	0.87
Flash Point COC			ISO 2592	218

Properties	Method	Shell Textile Needle Oil S2 M 32
Pour Point °C	ISO 3016	-15

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 Textile Needle Oil S2 M 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 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.