

Shell Vexilla Oils A, G and K

Textile machinery oils



Shell Vexilla Oils A, G and K are low viscosity textile machinery lubricants that have been specially developed for lubrication of the needle mechanisms of flat and circular bed knitting and weaving machines. They are based on highly refined mineral oils and contain additives to resist oil fling off, minimise wear and to provide high levels of corrosion protection.

Applications

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

Shell Vexilla A is intended for use on flat bed knitting machines where sized yarn is used.
Shell Vexilla K is intended for use on flat bed knitting machines where sized yarn is not used.

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

Shell Vexilla G is intended for use on circular bed knitting machines where sized yarn is not used.

Vexilla A, G and K are suitable for use on knitting machines producing hosiery and other knitted items from wool, cotton, rayon, silk and other yarns.

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

Performance Features and Benefits

- **Prevent deposit build up on needle mechanism**

Resist oxidation and deposit formation that may otherwise give rise to uneven movement and flaws. Vexilla A contains a size solvent to prevent build-up of gummy deposits where sized yarn is used.

- **Excellent anti-wear performance**

Provide high levels of anti-wear protection for needles and high precision, close tolerance components of the needle mechanism.

- **Low energy consumption**

Specially developed to provide required lubrication at low viscosities, such that energy consumption, maintenance and downtime costs are minimised and high productivity maintained.

- **Readily scourable**

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

- **Excellent corrosion prevention characteristics**

Provide effective protection of machine components in contact with moist air and water-based size even under intermittent operating conditions.

Seal compatibility

Vexilla A, G and K are compatible with all seal materials suitable for use with mineral oils.

Health and Safety

Guidance on Health and Safety are 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.

Typical Physical Characteristics

Vexilla		A	G	K 15
ISO Viscosity Grade	ISO 3448			15
Kinematic Viscosity	ISO 3104			
at 40°C	mm ² /s	13	34	15
at 100°C	mm ² /s	3.1	5.7	3.4
Viscosity Index	ISO 2909	95	103	95
Flash Point COC	°C ISO 2592	121	218	157
Pour Point	°C ISO 3016	-45	-15	<-9
Density at 15°C	kg/m ³ ISO 12185	884	870	865

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