

TDS: (Technical Data Sheet)



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Global CKMO-22
Article No.: 2023-24-1

Ref# GBL-CKMO-2023/01
Page 1 of 2

GLOBAL CKMO-22

Extraordinary scourable new generation knitting oil for Textile Industry specially for any kind of high-speed circular knitting machines and socking knitting machines.

DESCRIPTION:

Global CKMO Oils are high- performance needle and sinker oils based on highly refined mineral oils and synthetic ester with selective agents. This oil also contains special additives which meet the on demand operating requirements in today's knitting mills. These oils are scourable with conventional washing liquors. Because of the perfect mixing of oils with good lubricity and the surfactant with good adhesion, the friction degree of knitting needles became low and it easily prevents the yarn from cutting during knitting. Furthermore, this oil is compatible with elastane fibers also.

APPLICATION:

High speed, large and small diameter circular electronically or mechanically controlled Single- and Double-Jersey/Rib knitting machines, Socking knitting machines; to its moving parts like- needles, cams, sinkers, sinker rings, needle cylinders, dials, tuck cams etc.

This CKMO oils keep the needle tracks clean and extend the service life of needles and sinkers. They are suitable for all applications in hosiery, circular and flat-bed knitting machines.

Global CKMO Oils are available basically in ISO VG 12, 22 and 32 viscosity grades. Please observe the machine manufacturer's viscosity recommendations.

PROPERTIES:

- special formulation based on mineral oil with product-specific active agents; ensure high lubrication
- high oxidation resistance, excellent aging stability limiting stains, sludge and sediment formation
- contains special emulsifying component additives guaranteeing high scour-ability/wash-ability both at high and low temperatures through conventional washing processes
- maximized shelf life for key stitch forming parts such as needles, sinkers and tuck cams
- ground breaking anti-wear technology, protecting your machine from wear and corrosion, causes low machine temperatures
- Noise and vibration dampening
- compatible with Elastane fibers, frame paints, plastics and electronic components
- Suitable for oil circulation systems in hosiery knitting machine
- Biodegradable and safe for skin

COMPOSITION:

- Mineral based oil (high refined oil).
- Synthetic ester.
- Nonionic surfactant.
- Anti-rust agent &
- The other selective agents.

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Page 2 of 2

TECHNICAL CHARACTERISTICS:

SL No	Technical data heading	Test Methods	Specifications	Typical Results
1	Appearance	Visual	Clear, light yellow liquid	Bright and clear, free from suspended materials & sediment.
2	Density, at 20°C gm/cm ³	DIN EN ISO 12185	Max. 0.880	0.832 gm/cm ³
3	Kinematic viscosity/ at 40°C mm ² /sec	ASTM D445	Max. 28	22 ± 2.0
4	Flash point- PMCC, °C	COC	Min. 160	180 °C ± 2.0
5	Pour point, °C	COC	Max.-22	- 18 °C ± 1.0
6	pH (10% emulsion)	ASTM	6.0~8.0	6.0~8.0
7	Viscosity Index	DIN 62136	110 to 120	112 ± 1.0
8	Load Carrying Capacity	DIN 62136	Max. 1300N	1200N
9	Copper Corrosion	DIN 62136	1b (Excellent)	1b (Excellent)
10	Steel Corrosion	DIN 62136	No Corrosion	No Corrosion

APPLICATION NOTE:

Global CKMO Oils can be precisely apply by means of conventional oil feeders. General recommended oil pick up ratio (O.P.U.) is 1.0~3.0%.

Before changing to Global CKMO Oils, please make sure that the oil feeders are drained completely and the oil chamber are thoroughly cleaned. Different types of needle oils should never be mixed. It recommended to use any branded cleaning agents, to clean your machines first.

PACKING:

200 Ltr. Drum
50 Ltr. Jar
20 Ltr. Pail/Gallon

STORAGE:

To avoid the insertion of humidity/accidental water or contaminations, pay attention that the package is closed immediately after withdrawal/use! Recommended storing temperature: + 10°C to +40°C.

Note: The minimum shelf life is approx.12 months if the product is stored in the original closed container in a dry place.

HEALTH, SAFETY & ENVIRONMENT:

Based on available data from MSDS of ingredients used in the product, this product is not health hazardous. However, proper precautions should be taken to avoid long-term skin contact, exposure or accidental effect.

DECLARATION:

Global CKMO Oils is an activated oil made of balanced blend of lubricating oil and mixed emulsifying compound. It is easily removable by conventional washing. Due to different factors of influence during the bleaching and washing process, we cannot give any guarantee for the treatment of oil-contaminated fabric. Please always check the wash-ability under real conditions in your production. Monitor the lubricant quantity and to readjust it, don't top up oil directly in fabric/fabric roll. In application of this oil on needle, sinker & cams on cylinder/dial, don't keep the machine stopped for long time; for the moisture presence on air, this activated oil reacts and try to formation of rust.

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