

Hi-Tech

KNITTING OIL 22 / 32 Plus

High Performance Scourable Knitting Oil

Knitting is an intricate process through which consecutive loops or stitches are formed to turn yarn into fabrics. Modern circular knitting machines, flat beds and weaving machines daily process several hundred kilograms of knitted material at maximum speed. Hundreds of fine needles and sinkers turn colorful threads into socks, sweaters, skirts, coats, woolen bed covers and fabrics with finest patterns in a fraction of second. An accurate knitting and weaving image requires good yarn tension as well as the reliable operation of bearings, gears, sliding elements and needles. Even the smallest machinery discrepancy reflects immediately on the knitted or weaved fabric .



Hi-Tech Knitting Oil Designed specifically for use on modern, high-speed knitting machines. These oils provide excellent protection for needles, needle cams, dials and cylinders needles, sinkers and sinker rings against wear and fretting corrosion. Hi-Tech Knitting oil also contain effective emulsifier system to aid in removing knitting oil from fabrics in both hot and cold wash prior to dyeing/finishing.

Features

Can be conveniently used with all the types of Knitting Machines

Excellent anti-wear and lubrication properties

Keeps check on needle temperatures during high-speed knitting

High-temperature tolerance (Up to 150°C)

Exceptional adhesion properties increases the efficiency of the lubricating oil

Benefits

Increased flexibility in terms of usability of lubrication oil

A significant reduction in energy losses, translating into an increase in overall efficiency

Increases the life of knitting machine and all the components exposed to continuous wear and tear

Provides the machine with the ability to work well even at adverse working conditions

Increases the efficiency of the lubricating oil

Specification and Approvals:

Classified as DIN 62 136-1 and DIN 51360 for needle and sinker oils based on mineral oil. ISO VG 22 / 32

GOTS 3.0; GOTS 4.0; OEKO-TEX compliance and OECD-301C

Corresponds to performance level requirements of Terrot, Lonati, Mellor Bromley, Sangiacomo, Monarch

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Technical characteristics

Technical Data	Methodology	Units	Value	Value
Viscosity 40°C	DIN 51562	mm ² /s	22	32
Viscosity 100°C	DIN 51562	mm ² /s	4,3	6,7
Viscosity Index	DIN ISO 2909		119	119
Color ASTM	DIN ISO 2049			Clear, water light
Density 15°C	DIN 51757	kg/m ³	864	864
Flash point	DIN ISO 2592	°C	210	212
Pour Point	DIN ISO 3016	°C	-15	-14
Wear Resistance	DIN NORMS62136	°C	Passed	Passed

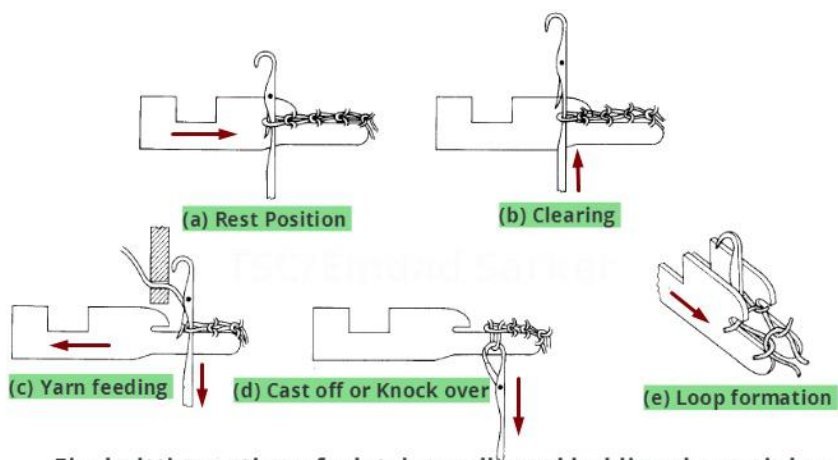


Fig: knitting action of a latch needle and holding-down sinker

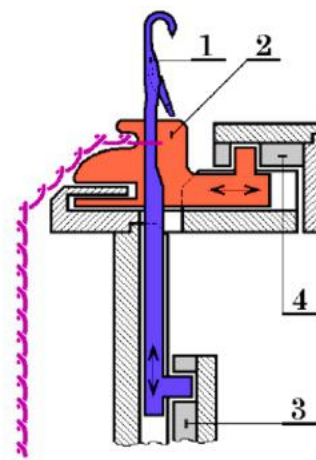


Fig: Needle and Sinker operation

Selection of The Perfect Knitting Oil

- The lubricating oil should be able to form a strong thin film to withstand high-speed movement of the needle and sinker to ensure an extended life of two frictional partners.
- The oil should be able to provide consistent performance for a variety of friction coefficients over extended periods.
- It should not form any sort of residue as it could hamper the speed sliding movement.
- The lubricating oil should have good oxidation stability to make certain that the machine suffers minimal wear during machine startup.
- The oil should be chemically inert so that it does not react with a plastic tube or machine paint even if it is in contact for extended time periods.



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