

LUBEX AH is a weakly anionic emulsion of modified synthetic lubricants prepared to specifications which promote versatility as a conditioning and winding lubricant or as a fibre supplementary spin finish.

APPLICATION

LUBEX AH is ideally suited for lubrication of fibre, yarn, piece and garment at all stages of processing. LUBEX AH dries out to a liquid film which does not build up during subsequent processing and is readily removed during routine cleaning operations.

The use of LUBEX AH either during conditioning, winding or as a spray application during fibre processing yields a resultant yarn with improved fibre / metal frictional characteristics, i.e. reduced fibre / metal friction. Dependent on yarn, application levels and method of application, a typical reduction in fibre / metal friction from 0.25-0.20 to 0.18-0.15 should be readily achieved.

As a result of this reduced fibre / metal friction, final waxing at winding is less critical and a substantial reduction in, or elimination of, knitting problems can be achieved. In certain cases the application of LUBEX AH may enable knitting to be performed direct from the dyed package.

The spray application of LUBEX AH during processing will also provide improved lubrication during twisting giving a decrease in fly, dust and fibre shedding.

a) Conditioning / Winding

0.5 – 2.0% (o.w.f.) LUBEX AH applied from a suitable dilution in water during conditioning or backwinding will promote a substantial reduction in fibre / metal friction, fly and fibre sheddage. Typical dilution rate would be 1 part LUBEX AH to 4 parts water, adding the LUBEX AH to the water.

LUBEX AH incorporates a highly efficient wetting agent, ensuring even penetration of the yarn and is suitable for application by commercial conditioning and winding machinery currently in use.

b) Processing

LUBEX AH may be applied either during blending, prior to carding, or at drafting. Where possible LUBEX AH should be applied by means of an accurate spray device or atomiser to ensure even application at low levels.

Whilst specific recommendations can be made on request, initial trials should be carried out with 0.70 – 0.85% LUBEX AH (to give 0.25 – 0.30% solids finish on dry yarn). Thus 1000 kgs of fibre should be treated with a mixture containing 2.0 kgs of LUBEX AH and 8.0 kgs water.

The appropriate adjustments can then be made if more or less finish is desired in order to obtain particular frictional characteristics of the resultant yarn.

WET PROCESSING

LUBEX AH, being a highly emulsified blend of fatty lubricants, is suited to application to yarns that will be subjected to further wet processing.

Any standard scouring, washing or milling process will prove adequate in removing LUBEX AH without any special procedures. The level of emulsifiers in the lubricant itself is sufficient for its removal by water alone, but this is further enhanced by the usual auxiliaries, such as detergent wetting aid or alkali that may be employed in the process.

When **LUBEX AH** is being used on woollen-spun yarns, its removal will be effected by normal scouring milling which is normally employed to remove spinning aids etc.

LUBEX AH will have not detrimental effect on yarns or fabric where it is not removed. A slight surface softening effect may be noticed on certain fibres / fabrics.

N.B. – Stir before use, especially if the product has been standing for long periods.

TYPICAL PROPERTIES

Appearance	- Fluid off-white emulsion	Fibre / Fibre Cohesion	- Medium
Odour	- Characteristic, fatty	Fibre / Metal Friction	- Very low
Ionic Character	- Weakly anionic	Solubility	- Readily diluted with water at all temperatures
pH (as supplied)	- 7.0 – 9.0	Stability	- Stable, but protect from extremes of temperature
Density @ 20°C	- Typically 0.95 g/cm ³		
Activity	- 35 ± 1%		

STORAGE ADVICE

Protect from cold – store indoors above 5°C. If exposed to low temperatures, or if left standing for a prolonged period, this product may settle out. If this situation occurs, then it is easily reversible by stirring or agitating the product.

HEALTH & SAFETY

This product has been manufactured to the highest standards and when used for the purpose recommended is unlikely to present any significant health hazards. A Material Safety Data Sheet is available.

Indicated data are approximate values and are subject to the usual commercial fluctuations. All information correct at time of going to press to the best of our knowledge. This information may be subject to change without notification due to continual product research and development.