

UNILUBE WWA is an aqueous solution of synthetic water-soluble lubricants formulated for application as a yarn dressing at beaming off after warping or at re-beaming. It is ideally suited for application to all types of warp yarns whether natural, synthetic or blended, regardless of the system on which they have been spun. UNILUBE WWA does not contain banned substances listed by GOTS/ZDHC, Oeko-Tex Standard 100 and Bluesign.

## **APPLICATION**

UNILUBE WWA may be applied by trough and lick roller at the warp mill or beaming frame and is usually suited for application by conventional bottle feed or the more modern circulating pump systems, e.g. Benninger Supertronic.

The following generalized application rates are recommended

Woollen Yarn	2.0 - 6.0%
Worsted Yarn	2.0 - 4.0%
Synthetic / Wool Blend	1.6 - 4.0%
Synthetic / Cotton Blend	0.8 - 3.6%
Synthetic Staple	0.8 - 3.6%
Synthetic Filament	0.6 - 1.6%
Linen & Linen Blends	3.9 - 4.0%

However, the user should adjust these figures to suit individual requirements.

## **BENEFITS**

UNILUBE WWA acts as a mild size and smoothing agent for warp yarns. A substantial reduction in yarn to yarn friction and yarn to metal friction is achieved by the laying of the surface fibres of warp threads parallel to the axis of the yarn which in turn aids reduction in, or elimination of, common weaving faults such as stitching or pilling with plain weaves and closely set warps.

UNILUBE WWA serves as an extremely effective antistatic lubricant in reducing fibre/metal friction, and is very effective in reducing fly and fibre shedding which commonly builds up on the loom leading to weaving faults particularly during high speed weaving.

UNILUBE WWA applied to continuous filament yarns aids weaving performance by coating the yarn finish and binding the individual filaments together preventing opening out of the yarn and fibre breakage.

Whilst UNILUBE WWA can be readily removed after weaving during a conventional scouring operation, where dyeing and finishing on the fabric is necessary, no special steps need be taken to remove the finish since UNILUBE WWA exhibits advantageous dye leveling and dispersing properties during subsequent dyeing of the fabric.

UNILUBE WWA is totally soluble in chlorinated hydrocarbons and as such is readily removed in a typical solvent scour.

## **TYPICAL PROPERTIES**

Appearance	Water-white viscous liquid
% Activity	25 ± 1%
pH	6.0 - 8.0
Ionic Character	Nonionic
Viscosity (B4 Ford Cup)	< 20 secs @ 20°C
Anti-static Properties	Excellent

Solubility	Soluble in water and dry cleaning solvents at 50C - 1000C
Storage	Remains liquid at normal temperatures

## **HEALTH & SAFETY**

Please refer to the Safety Data Sheet, freely available, for product handling and disposal advice. Please note that the SDS includes handling, storage, health and disposal information which should be passed on to anyone else who comes in contact with our product. Additional advice can also be obtained from your local representative.

NOTE: Read and understand all precautions on container labels before using this product.