

# MAK WARPING OIL

High quality oil for warping application

MAK Warping Oil has been specially designed for warping application of textile yarn. Weaving of textile is a process of interlacing warps with wefts. In a fabric, longitudinal yarns are called warps and lateral or cross yarns are called wefts. In warping application, warp yarns are arranged parallel to each other and wound around a beam. Warping oil is used to treat textile yarns to withstand the abrasive forces the warp yarns face during weaving application. MAK Warping Oil is blended from highly refined, hydroprocessed base stock fortified with special emulsifier and antistatic additives. It is water soluble, emulsifiable and helps provide flexibility to the yarns. It also offers abrasion resistance, antistaining and antistatic property to the yarns. Yarns treated with MAK Warping Oil are less likely to be damaged during slashing operation and ensure improved weaving performance.

**Applications:**

MAK Warping Oil is a neat oil for warping application of textile yarns.

**Performance/ Benefits:**

**Reduction of Friction** – special additive chemistry helps reduce friction between thread and metal. Reduces breakage.

**Abrasion Resistance** – ensures less damage during slashing operation during warping improved weaving. Offers good finish to fabric.

**Antistaining** – leaves no stain on the yarn or fabric. Picks up less oil. No deposit formation.

**Superior Antistatic Property** – prevents fibre pick up dust build up. Yarns can be easily arranged parallel to each other.

**Excellent Washability** – possesses excellent washability that facilitates easy removal of oil. Leaves no stain.

**Low Volatility** – excellent resistance to evaporation even at high ambient temperatures. Reduces consumption and provides good working environment.

**Rust and Corrosion Resistance** – possesses excellent resistance to rust and corrosion.

**Specification:**

- Proprietary Grade

**Typical Physico-Chemical Data: MAK Warping Oil**

Characteristics	Method	Value
Appearance	Visual	Clear
Colour	Visual	Water White
Density, g/cc @15°C	ASTM D1298	0.850
Kinematic Viscosity @40°C, cSt	ASTM D445	19.30
Emulsion Stability, (10% vol. water solution)	--	Stable
pH Value, (10% vol. water solution)	ASTM D1287	7.81

**Storage & Handling:**

The product should be stored inside. Keep it properly sealed to avoid contamination. Avoid freezing. Shelf life is 3 yrs. under protected storage conditions.

**Health & Safety:**

It is unlikely to be hazardous when properly used in recommended applications. Contamination of the oil from other oils, greases, chemicals, dirty water etc. can occur during the use. It should be avoided. Regular monitoring of the in-use product is recommended.