



# KETTLITZ-Medialub 3000

- technical leaflet -

KETTLITZ-Medialub 3000 is a new **water-based** high performance chainsaw lubricant, which is free of synthetic and mineral oil.

Its usability and performance are approved by the KWF (Board of Trustees for Forestry and Forest Technology e. V.) and rated as "very good".

Special additives enable KETTLITZ-Medialub 3000 to combine an excellent lubrication performance with a one of a kind viscosity behavior.

Compared to normal chainsaw lubricants, the viscosity of KETTLITZ-Medialub 3000 keeps increasing up to about 35 °C. When facing temperatures below that mark, the viscosity of Medialub 3000 is steadily decreasing. This viscosity behavior prevents major losses of lubrication material due to the high rotation speed of the chain during its usage (especially during longer work periods, the extended remaining of the lubricant at its intended places is very effective, cost efficient and material gently) as well as enables the easy to use (low viscous) character of the product when facing cold temperatures. KETTLITZ-Medialub 3000 can be used up to -10 °C.

## The strong points of KETTLITZ-Medialub 3000:

- The water-based character of KETTLITZ-Medialub 3000 enables environmentally friendly working. No harmful substances get exposed into the nature when using it. This is controlled and certified by the "Blauer Engel" (blue angel) certificate given by the RAL. The other ingredients of Medialub 3000 mostly consist of renewable substances and possess a good biodegradability.
- Excellent lubrication properties as well as superior handling at cold and warm temperatures are achieved due to the unique viscosity behavior of KETTLITZ-Medialub 3000. This helps to prevent leakages and loss of material due to high rotation speeds. A more economical as well as material gently workflow can be achieved.
- Contamination of the chainsaw as well as the workplace and work clothes can be avoided or at least reduced and, if present, conveniently be removed with cold water alone.
- Usual crystallization effects on the chain and guide bar, which are common with bio-based (vegetable oil) lubricants are avoided completely.
- Since Medialub 3000 is a water-based product, evaporation can happen during the usage of the saw. This is an intended process and has no negative influence on the lubrication behavior of the product. The evaporation process helps to cool the guide bar down further.
- Even after long storage times no corrosion on chain, bar and chassis can be observed when used properly. This means to avoid putting on the bar protection right after using the saw (a 5-minute wait is sufficient) in order to prevent the creating of a closed off water steam atmosphere (due to evaporation during and after its usage) around the guide bar and chain.



**Please note:**

**KETTLITZ-Medialub 3000 must not be mixed with any other bio-, synthetic- or mineral based lubricants. Lubrication failures can appear when mixing with incompatible substances.**

**When using KETTLITZ-Medialub 3000 for the first time, it is important to clean the lubricant tank properly. In order to get started, the user must rinse out the tank with about 100 ml of Medialub 3000 repeatedly till the wash residue has about the same color and clearness as the fresh Medialub 3000. For more detailed information please visit [www.kettlitz-medialub.com](http://www.kettlitz-medialub.com) to view the cleaning advice.**

**The product must not be diluted with water in order to avoid technical faults.**

**Since to water is the main component of Medialub 3000, it should not be used at temperatures of below -10 °C.**

**When working with wood that includes tannic acid (e.g. oak) slight discolorations may appear. This phenomenon does not influence the lubrication effect in any way.**

**Technical Properties**

Chemical Characteristics		water-based chainsaw lubricant with additives
Appearance		transparent, brown liquid
Color	(ASTM D 1500)	approx. 2
Density at 15 °C	(g/cm <sup>3</sup> )	1.071 ± 0.010
Refraction n <sub>D</sub> <sup>20</sup>		1.390 ± 0.010
Viscosity at 40 °C	(mm <sup>2</sup> /s)	140 ± 10 %
Freezing Point	(°C / DIN 51 583)	ca. -10 °C
Physiol. Behavior		see safety data sheet
Storage Stability		2 years under suitable storage conditions
Packing		Canister: 1 liter, 5 liters or 20 liters Drums: 60 liters and 200liters Container: 1000 liters