



KETTLITZ-Medialub 4100

- technical leaflet -

KETTLITZ-Medialub 4100, based on vegetable oils, is free of synthetic and mineral oils and highly biodegradable.

Special additives provide a long-term protection from resinification of the vegetable oil used. The vegetable oil itself has already good lubricating effect which is optimized by addition of special additives. Abrasion, wear and corrosion of rotating metal parts are almost eliminated. Good properties at low temperatures enable this bio-oil to work even under extreme winter conditions.

The KWF (German Center for Forest Work and Technology) verified the usability according to RAL UZ 178 in November 2014. Furthermore, after proofing the lubrication properties of KETTLITZ-Medialub 4100 according to ISO/TS 19858:2014, it was confirmed that it causes a "very small chain elongation". In addition, it shows also "good performance characteristics" in field trials. Due to its properties, KETTLITZ-Medialub 4100 can be used for high and very high load all the year, e.g. on fast running chains of harvester aggregates.

It is not soluble in water, so when normally used or e.g. leakage occurs, the product mainly stays in the upper ground layers and therefore does not reach the ground water. Besides, KETTLITZ-Medialub 4100 meets the criteria of the German certification for environmentally beneficial products, the "Blue Angel". For the eco-label "Blue Angel" according to RAL-UZ 178 the proportion of renewable raw materials was determined by the DIN method CEN / TS 16137 (DIN SPEC 91236). The value is about 95%.

It is also implemented in the data base of the FNR:
(see https://datenbank.fnr.de/produkte/bioschmierstoffe/?__mstto=en).

KETTLITZ-Medialub 4100 cannot be mixed with synthetic or mineral oil, i. e. before using them lubrication equipment (dosing station, storage containers, dispenser equipment, etc.) has to be emptied and cleaned thoroughly.

Properties

Chemical Characteristics	vegetable oils and dissolved polymers, containing additives
Appearance	transparent, greenish liquid
Density at 15 °C	0.922 ± 0.010
Viscosity at 40 °C (mm ² /s)	100 ± 10 %
Flash Point (°C)	> 230
Storage at low temperature (72 h/-18 °C)	liquid
Physiol. Behavior	see safety data sheet
Storage Stability	4 years under suitable storage conditions
Packing	5 liter and 20 liter plastic cans 200 liter drums, 1 000 liter containers, road tankers for orders ≥ 5 000 kg

Information for consumer

acc. RAL-UZ 178



www.blauer-engel.de/uz178

Store out of reach of children
Do not allow unused quantities of the product to reach the sewerage system, watercourses or soil
Product residue is to be disposed of in municipal collection points for harmful substances
Only return empty containers for recycling