



Lubsil L21B

PRODUCT-NO.: 4921 | IMDS-NO.: 977768



Lubsil L21B is a waterbased suspension of high-performance solid lubricants. It forms a transparent dry lubricating film with excellent sliding properties, especially for precise friction control of fasteners, applied dip-spin. Lubsil L21B is an alternative to Lubsil L21.

Features and Benefits

After application and drying, Lubsil L21B forms an almost invisible, transparent layer with excellent sliding properties. Thanks to its optimal processing, it enables cost-efficient coating of components.

- ✓ Constant, low friction values with low standard deviation
- ✓ High abrasion resistance
- ✓ Barely noticeable visually, UV-detectable
- ✓ Strong adhesion to a wide variety of materials
- ✓ No influence on other material properties
- ✓ Not subject to hazardous labeling requirements
- ✓ Very well suited for automatic feeding and screwing systems
- ✓ Reduced insertion torques for chipboard screws

Typical Applications

Lubsil L21B is used for bulk parts which are to be coated with a dry film to control friction properties. The coating provides defined and predictable coefficients of friction, making assembly processes easier and faster. Typical areas of application include:

- ✓ Chipboard and wood construction screws
- ✓ Electroplated (Zn, ZnNi etc.) fasteners
- ✓ Tap tight applications
- ✓ Stainless steel and plastic fasteners



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- ✓ Rivets
- ✓ Dowels
- ✓ Anchor screws
- ✓ Crimp nuts

Application Remarks

- ✓ Lubsil L21B is supplied as a concentrate - observe frost protection!
- ✓ Dilute with water (at least drinking quality) before use. Add the water while stirring constantly.
- ✓ The parts to be coated must be free of grease.
- ✓ Preheating the components (approx. 30-50 °C) before coating can improve the results.
- ✓ After coating, drying should ideally be carried out with warm air at 50-60°C.
- ✓ To avoid condensation and correlated corrosion issues, coated parts should not be packed until they have completely cooled down to ambient temperature.
- ✓ The pH value of the solution should be checked regularly and should always be above 7.5 to avoid precipitation.
- ✓ The bath concentration should be checked regularly (instructions are available on request).
- ✓ Excessive foaming due to strong agitation should be avoided. If necessary, the defoamer Lubsil AF-L can be used.
- ✓ Make-up concentration: 30 - 50Vol% (contact us for consultation)

TECHNICAL DATASHEET



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Technical Data

Property	Standard / Parameter	Unit	Comments
Look	Visually	—	White, milky
Density	DIN 51757	g/cm ³	~ 1,0
Viscosity	DIN 53211 / 3 mm	s	35 – 50
Diluent	—	—	Water, de-ionized
pH	—	—	4,5 - 5,5
Packaging	—	—	20 kg jerry can, 200 kg drum, 600/1000 kg IBC
Shelf life (sealed)	—	Months	12
Temp range in use	—	°C	-40 bis +120
Coefficient of friction (typical)	μ	—	0,08 - 0,12

Other Dry-Film Lubricants



Lubsil L11

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Lubsil L31

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The values stated correspond to the current state of our knowledge. These are average values which may vary within the scope of normal manufacturing fluctuations. We reserve the right to make further technical developments. Due to the different possible applications and conditions, the information provided is merely indicative. We recommend suitability tests of the product before use.