

LM 51 2-Components

Description

LM 51 is a high-performance dry-lubricant film which is anchored fast due to the chemical reaction with the surface of the MoS₂ lubricant film. The product is used for treating iron and steel (not high-alloy steel). LM 51 is made up of two components which are mixed together before use.



Properties

- outstanding emergency-running properties
- very low solvent content
- cures at room temperature
- resistant to oil, solvent and water
- outstanding protection against wear, even under high loads

Technical data

Appearance / properties	(1) black liquid (2) colourless liquid
Base	(1) MoS ₂ suspension in water/alcohol (2) acid salt solution
Density at 20 °C	(1) 1,05 (2) 1,75 g/cm ³ DIN 51 757
pH value	(1) 1-1,5 (2) > 4,0
Shelf life	24 Monate months

Areas of application

Used as a pre-treatment for difficult cold-form processes. Used for the manufacture of lead-in layers in bearings, pistons, screws and nuts etc.

Application

LM 51 is made up of two components which are mixed together shortly before use.

Mixing ratio

82 parts by weight of Component I to 18 parts by weight of Component II This corresponds to 75 parts by volume of Component I to 10 parts by volume of Component II

Before mixing, Component I must be stirred. The mixture must also be stirred at regular intervals to make sure that the MoS₂ is uniformly distributed in the mixture.

The mixture when ready should not be stored for more than 5 days.

Before application, the components must be clean, free from grease and dry. LM 51 can be applied by immersion, spraying or brush.

The coating thicknesses depend on the treatment time and the treatment temperature. For immersion, the treatment time should be between 5 and 20 minutes at a treatment temperature of around 60 °C. LM 51 can also be used at room temperature. In this case, the immersion time should be 30 minutes. Thinner coats can also be produced.

For spray coatings, it is advisable to apply several thin coats.

After the film has dried, a thin film of LM 48 Spray Paste or a corrosion inhibitor oil such as LCP 55 can be applied for long-term protection.

Available pack sizes

1 kg Bottle plastic 4118
D-GB-E-F-NL

Our information is based on thorough research and may be considered reliable, although not legally binding.