



# Shanghai Jichuan Trading

## LM 51 2-Komponenten (LM 51 2-Component)

**DESCRIPTION** LM 51 is a high-performance dry-lubricant film which is anchored fast due to the chemical reaction with the surface of the MoS<sub>2</sub> 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**

- very adherent, inorganically-bonded lubricant film
- resistant to oil, solvent and water
- outstanding protection against wear, even under high loadings
- outstandingly improves running-in properties
- limp-home properties
- air dries at room temperature
- very low solvent content

**TECHNICAL  
DATA**

<b>Appearance</b>	
Component I	black liquid
Component II	colourless liquid
<b>Basis</b>	
Component I	MoS <sub>2</sub> suspension in water/alcohol
Component II	acid salt solution
<b>Density at 20 °C</b>	DIN 51 757
Component I	1.05 g/cm <sup>3</sup>
Component II	1.75 g/cm <sup>3</sup>
<b>pH-value</b>	
Component I	< 4.0
Component II	1-1.5
<b>Regulation on flammable liquids (Germany)</b>	does not apply

**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.

**INSTRUCTIONS** 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

Shanghai Jichuan Trading Co.,Ltd.

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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 MoS<sub>2</sub> 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 SIZE**

LM 51 2-Component

1 kg

Part no. 4118

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