



Shanghai Jichuan Trading

LM 134 PTFE-Gleitlack (LM 134 PTFE Anti-Friction Lacquer)

DESCRIPTION

LM 134 PTFE Anti-Friction Lacquer is a PTFE dry-coat lubrication film with a level of performance never previously reached. The ready-to-use single-component product contains a mixture of fluorohydrocarbons in an organic resin with a very high chemical and abrasion resistance. The hardness, adhesion, elasticity and considerable reduction in friction can be achieved by curing at low temperatures. LM 134 can therefore be used wherever purely sintered PTFE coatings can never be used. Compared with pure PTFE, LM 134 is superior in regard to the duration of wear resistance, cold-flow resistance and ease of use. Even with coating thicknesses between 10 and 30 μm , heat-sensitive components made from light metals or non-metallic substances can be provided with clean and dry long-life lubrication with low friction values.

PROPERTIES

Coefficient of friction	: 0.08 - 0.09 / static 0.059 / kinematic
Thermal loading	: 150 - 240 °C, short term up to 275 °C
Chemical resistance	: fully resistant to attack from engine oil, synthetic oil, lubrication grease and high-grade fuel. Resistant to aliphatic, aromatic and chlorinated hydrocarbons and alcohols, ketones and esters. Resistant to aqueous solutions of the usual acids and alkalis in water and to tap water. The resistance was tested with the storage of degreased and coated sheet steel at room temperature for three months.
Humidity test	: no rust after storage of coated sheet steel for 500 hours at 50 °C and 98 % relative humidity.
Salt-spray test according to ASTM B 177-64	: 216 hours in 5 % salt mist
Sand abrasion according to ASTM D 968-44	: 21 $\frac{1}{25}$ μm
Taber wear test	: Weight test, 16.9 mg at 1000 cycles and 1000 p loading
Film adhesion, cross cut DIN 53 151	: GT 0

TECHNICAL DATA

Lubricant	: mixture of fluorohydrocarbons
Binder	: polyimide

Shanghai Jichuan Trading Co., Ltd.

Add : No 1201, Yin Hai Building, Caoxi Tel: (86) 021-64820099
Road, Xuhui District, Shanghai

24h Hotline: 15900706965

Fax: (86) 021-64513829

Website: www.pingyiao.com

E-mail: info@jichuan.sh.cn



Shanghai Jichuan Trading

Solids content by weight	: 27%
solvent	: ester-ketone mixture
Thinner	: extender
Colour	: black
Density	: 1.04 g/cm ³
Flash point, DIN 51 755	: below 21 °C (AI)
Spreading rate (cover)	: with a coating thickness of 25 µm, 1 kg product can cover an area of 7m ²

EXAMPLES OF APPLICATION

Permanent lubrication film for low-loading, inaccessible slip bearings in vehicle construction, general engineering and light engineering. Carburettor shafts, injectors, springs, valve cones, washers, lock cylinders, industrial tools, spray gun components, slide rails and feed slides, snow scoops, saw blades, garden equipment, tank linings and the sole-plates of smoothing irons.

INSTRUCTIONS

Only if used correctly can the properties of LM 134 be fully utilised. The surfaces to be coated must be clean or bare metal, free from grease and dry. It is advisable to degrease the surface with LM Rapid Cleaner or something similar. In general, it is not necessary to pre-treat the substrate but, to achieve the optimum wear resistance, the substrate must be pickled, phosphated, anodised or centrifugally blast-cleaned.

Before spraying, LM 134 must be carefully stirred. Vigorous stirring must be avoided since inclusion of air or foam will impair the homogeneity of the ready-to-use product. The most uniform coats are obtained by spraying with a good paint spray gun with a jet aperture of 1.0 mm and an air pressure of 2-3 bar.

An LM 134 film which has been cured and has already been subjected to wear can easily be repaired after the damage has been roughened with fine sandpaper or steel wool. After the repair, curing can take place normally.

Curing takes place after a drying time of 5 min in a paint-drying oven, over 60 min. at 150 °C or 30 min at 205 °C (workpiece temperature).

SAFETY MEASURES

Please follow the safety instructions on the container and the safety data sheet.

Fluorohydrocarbons slowly decompose at temperatures above 205 °C and emit small amounts of poisonous gases. If necessary, these gases must be removed by an air extraction system.

Longer periods of storage of LM 134 at temperatures above 25 °C should be avoided.

AVAILABLE PACK SIZE

LM 134 PTFE Anti-Friction Lacquer 1 kg

Part no. 4041

Shanghai Jichuan Trading Co.,Ltd.

Add : No 1201, Yin Hai Building, Caoxi Tel: (86) 021-64820099
Road, Xuhui District, Shanghai

24h Hotline: 15900706965

Fax: (86) 021-64513829

Website: www.pingyiao.com

E-mail: info@jichuan.sh.cn



Shanghai Jichuan Trading

Shanghai Jichuan Trading Co., Ltd.

Shanghai Jichuan Trading Co., Ltd.

Add : No 1201, Yinhai Building, Caoxi Tel: (86) 021-64820099
Road, Xuhui District, Shanghai

24h Hotline: 15900706965

Fax: (86) 021-64513829

Website: www.pingyiao.com

E-mail: info@jichuan.sh.cn