



### Description

Milform 51 is a low viscosity neat oil specifically developed for a vacuum or thermal de-oiling process. This lubricant is designed to extend tool life, maximise forming operations and vaporise with heat from the formed product. This characteristic eliminates the need for a post-cleaning stage by vapour or aqueous degreasing methods. Milform 51 can be removed in a vacuum furnace, CAB (Controlled Atmosphere Brazing) furnace or thermal de-oiling furnace. A unique feature to this lubricant is that it will vaporise 100% at a relatively low furnace temperature.

### Application

Milform 51 multi-purpose lubricant may be used on aluminium and aluminium alloys for fin production or stamping processes, but can also be used to bend, expand and cut-off copper tubing in the manufacture of heat transfer units. The compatibility of Milform 51 with the process of vacuum or thermal de-oiling to eliminate the need for post-cleaning has become a creative standard world-wide.

Milform 51 may be applied by spray, roller, drip or brush methods.

### Features and benefits

- Good die and tool life.
- Pre-tested on aluminium fin mills.
- High lubricity and wettability for drawing aluminium sheet stock.
- Safe on all copper, aluminium and aluminium alloys.
- Compatible with CAB or vacuum brazing process.
- Economical – low total cost.
- Suitable as a surface lubricant for the manufacturing of metallic articles that will have an incidental or unintended food contact, according to FDA21 CFR 178.3570 of 1 April 2004.
- Suitable as a surface lubricant for the manufacturing of metallic articles that come into direct food contact, according to FDA 21 CFR 178.3910 of 1 April 2004.

## Methods of application

Milform 51 lubricant is used as received.

## Physical data

Appearance	Clear, colourless liquid
Odour	Slightly petroleum-like
Density DIN51757/7 (1/1984)	810 kg/m <sup>3</sup> at 15°C
Viscosity	2.9 cSt at 40°C

Above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

## Handling and storage

Keep at temperatures between 5°C and 35°C in original container.

## Packaging type

20, 200, 1.000 litre and bulk (on request).

## Safety Data Sheet

The Safety Data Sheet should be consulted for specific information and information on Health, Safety and Environmental matters when handling this product.



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