



PRODUCT-INFORMATION

1. Product Name

MECHANO-LUBE[®] 1M4

2. Product description

MECHANO-LUBE[®] 1M4 is a lubricant powder mixture. MECHANO-LUBE[®] 1M4 is formulated for an easy preparation of water based lubricants in forging shops. It has been developed to meet a precise need of lubricating effects and an easy handling. It can be converted into water based dispersion by simply mixing and stirring. MECHANO-LUBE[®] 1M4 is extremely versatile after conversion into liquid and performs well over an extremely wide range of operating conditions. The special processed graphite shows a low friction coefficient and can be combined with most of other water based graphite dispersions. The high quality and performance of macro-crystalline graphite promotes good workpiece surface quality, reduces costs and increases productivity. MECHANO-LUBE[®] 1M4 can be isolated with normal precipitation procedure of waste water treatment.

The H.C. Carbon experts will be glad to recommend the best mixing and application equipment required for dispersing our MECHANO-LUBE[®] 1M4.

3. Applications

- Forging shops, hot metal forming
- Forged parts with complicated gravities like crankshafts
- Production of self-lubricating coatings
- Mold releasing agent

4. Properties (after conversion into liquid)

- Sticks on most surfaces
- For all manual and automatic spraying systems (airspraying and airless)
- Heat resistance
- Uniform wetting
- High stability
- Compatible with most water based dispersions
- No heavy metals or phosphates
- Nonflammable, safe to use, safe to store
- Non corrosive



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5. Advantages

- No transport of water
- It can be prepared when needed
- No sedimentation
- Extended shelf life
- No freezing problems
- Less storage space

6. Technical data

Property	Specification	Unit
Active mass	100	Wt. %
Bulk density	266	kg/m ³

7. How to prepare a dispersion

Tap water quality until max. 14°dGH can be used.

Carefully add the calculated quantity of MECHANO-LUBE® 1M4 (depending on the required quantity) into mixing tank equipped with a stirrer and containing the right quantity of water and mix thoroughly. Using dissolvers or Jetstream mixers fits best. Dispersion is ready after 60 minutes stirring time.

The ration between powder and/or water enable you to produce the solid content of your choice up to 30 % solid content.

8. Storage

MECHANO-LUBE® 1M4 should be stored in a cool dry place.

Remark:

Profit from our long-lasting experience in the field of hot metal forming and contact us. We are ready to assist you.