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## PRODUCT-INFORMATION

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### 1. Product Name

MECHANO-LUBE<sup>®</sup> 6D1

### 2. Product description

MECHANO-LUBE<sup>®</sup> 6D1 is a water based Boron Nitride dispersion with particularly good wetting and adhesion, even on hot surfaces. MECHANO-LUBE<sup>®</sup> 6D1 can be used in metal forming and aluminum casting and is resistant to temperatures far in excess of 1000°C. However, the product can also be used to produce electrically insulating layers. MECHANO-LUBE<sup>®</sup> 6D1 is also characterized by excellent thermal conductivity.

MECHANO-LUBE<sup>®</sup> 6D1 is formulated to allow dilution without degrading performance and is often used for dipping parts and to form a relatively hard coating just on drying. Thus, MECHANO-LUBE<sup>®</sup> 6D1 is typically selected for applications that require a harder surface (i.e., components that move while in contact with molten metal).

### 3. Applications

- Drop forging and in most areas of metal forming
- Billet coating
- Aluminum, Magnesium casting
- Brass casting
- Production of self lubricating coatings
- Release agent for high temperatures
- Production of insulating layers
- Production of thermally conductive coatings
- Mold releasing agent, bras, steel, aluminum
- Stainless steel

### 4. Properties:

- Totally protects surfaces from molten metal and its splash
- Reduces the forming forces
- For all manual and automatic spraying systems (air-spraying and airless) and dipping or painting
- Heat resistance
- Good wetting ability
- Corrosion resistant
- High stability
- Compatible with most water based dispersions
- No heavy metals or phosphates



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- Nonflammable, safe to use, safe to store
- Ready dilutable to any level
- No foam
- No wastewater problems (biologically eliminable)
- Odorless (Ammonia-free)
- VOC and APEO free

### 5. Technical data:

| Property      | Specification    | Unit  |
|---------------|------------------|-------|
| Solid content | 30.0±1           | Wt. % |
| Carrier       | water            |       |
| Diluent       | water            |       |
| Ionogenicity  | Slightly anionic |       |
| Density       | 1.10             | g/ml  |
| pH            | 10.0±1           |       |

### 6. Dilution and storage

MECHANO-LUBE<sup>®</sup> 6D1 is supplied as a concentrate and can normally be diluted with ordinary tap water prior ready to use.

### 7. Storage

The product should not be exposed to direct sun. Shelf life under normal storage conditions 9 month. MECHANO-LUBE<sup>®</sup> 6D1 should be stored in a cool dry place.

### Service

It is our commitment to provide the best service. Our technical staff will be happy to serve you.