

TORMA DRAW LM AW/PL

Description:

TORMA DRAW LM AW/PL is a synthetic and lubricant fluid. It can be easily dispersed in water, making a translucent, stable and semi-transparent emulsion. Its specific application is cold die forming of plate sheets. The product is innovative and convenient, thanks to its property of increasing dies life.

It has the following features, which are suitable in the operations mentioned above:

- No mineral oil;
- Oily power for a good anti-wear and EP property;
- High wetting power, no tacky residual, no micro-swarf or sludge while working and minimum abrasive effect on dies edge;
- Good anti-rust and anti-oxidant power;
- No active components (e.g. chlorinated compounds) on plates surface, in order to save its characteristics;
- No dry-tacky residual.

Application:

Pressing, cold forging and die forming of ferrous materials (steel) and high-content silicon alloys (>7%). When diluted in water at the correct percentage, it can be used in cutting operations, where fluid nebulization is expected.

Warnings:

TORMA DRAW LM AW/PL can be used as it is for particularly hard operations or diluted in water. The dilution percentage can range, according to different factors as water hardness, required protection performance or difficulty of operation.

- Average percentage of use:
 - Pressing 5-50%
 - Bending 5-10%

TORMA DRAW LM AW/PL is easily and quickly solubilized in water, by hand or by a blender. In the first case, it is always necessary to pour the product in water (and not vice versa) for a quick dispersion. If this operation is made slowly and with regular shaking, the emulsion will be stable and its features will be value at best.

TORMA DRAW LM AW/PL is correctly solubilized also by all kind of blenders, both Venturi Meter and volumetric. A periodic control of calibration and efficiency of blender is recommended.

Storage:

Keep at a temperature between +5 and +40°C, in a fresh and dry place and in the original well-closed container; avoid the direct exposition to sunlight.

AVERAGE CHEMICAL AND PHYSICAL PROPERTIES*

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|----------------------|------------------------|------|---------------|
| Density at 20°C | ASTM D 1298 | Kg/l | 1,025 |
| pH at 5% in water | - | UpH | 8,63 |
| Refractometric Index | - | - | 1,43 |
| Alkaline Reserve | S.Q. Bellini P.O. 10.5 | - | 8,5 |
| Physical Aspect | | | Limpid liquid |
| Colour | | | yellow |

* these data do not constitute specification

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Technical Data Sheet