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Product Data Sheet

NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability. Product typical properties in this publication are current.

AFTON SYNTHETIC BLEND

Afton Synthetic Blend is a cutting fluid, emulsifiable in water. It is a nitrite-free synthetic blend, specially developed for operations of grinding and machining of steel and cast iron, giving a high level of superficial finish.

Afton Synthetic Blend presents a highly stable opalescent emulsion. Its lifetime operation is much longer than conventional products. It is completely anticorrosive at concentrations of 3%, giving an excellent protection to machines and their parts.

Afton Synthetic Blend, due to its high moisturizing power, it significantly improves the cooling of the cutting area and keeps the machines clean of micro-chips coming from machining and grinding.

Recommended applications

To prepare the emulsions of Afton Synthetic Blend, it is necessary to use potable water of a maximum hardness of 30°HF and that the chloride content does not exceed 0.2 gr/l.

To get a good emulsion, it is advisable to pour the Afton Synthetic Blend on the water and shake. The water should not be poured over the Afton Synthetic Blend.

The concentration of use is 2 - 6%, depending on the operation and water used. We advise you to follow the instructions indicated below:

- Machining of steels: 3 -5%
- Casting machining: 3%
- Grinding of steels: 2 -3%
- Grinding of foundry: 3%
- Machining of alloyed steels: 4 - 6%

Physical Properties

<i>Emulsion color</i>	<i>Opalescent</i>
<i>pH at 3% in distilled water</i>	<i>9.2 – 9.7</i>
<i>Nature</i>	<i>Synthetic Blend fluid</i>
<i>Corrosion paper 3%, in water 25°HF</i>	<i>None</i>
<i>Nitrite content</i>	<i>None</i>
<i>Refraction factor</i>	<i>2.88</i>

Shelf Life: *Product shelf life is 5 years from the date of manufacture, after which the product should be recertified prior to use.*