Brautek®
ULTIMATE LUBRICANTS

METALWORKING WATER SOLUBLE FLUID

AFTON SYNTHETIC

Product Data Sheet

Manufactured by Dover Chemical Hammond Works • 300 Sheffield Avenue, Hammond, IN 46327, USA, under license from Brautek LLC

Afton Synthetic *is a cutting fluid, emulsifiable in water. It is a nitrite-free synthetic fluid, specially developed for operations of grinding and machining of steel and cast iron, giving a high level of superficial finish.*
Afton Synthetic *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*, 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****, it is necessary to use potable water of a maximum hardness of 30ºHF 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*** *on the water and shake. The water should not be poured over the* ***Afton Synthetic****.*

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%
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Physical Properties

Emulsion color	*Opalescent*
pH at 3% in distilled water	*9.2 – 9.7*
Nature	*Synthetic fluid*
Corrosion paper 3%, in water 25ºHF	*None*
Nitrite content	*None*
Refraction factor	*2.88*

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