



ECOCOOL 700 NBF (M)

No foam semi-synthetic coolant for use on all types of materials and applications.

Description

With over 90 years experience in lubricant formulation, Fuchs has developed a unique water dilutable cutting fluid, **Ecocool 700 NBF (M)**, designed to meet the increasing demands on industry.

Ecocool 700 NBF (M) is especially well suited to applications where clarity and foam control are critical, foaming a clear translucent solution in water, free from chlorine, nitrites and phenols.

Ecocool 700 NBF (M) is suitable for the machining of all ferrous and non-ferrous metals, from general to difficult machining applications where water soluble cutting fluid is required.

Ecocool 700 NBF (M) is suitable for the machining of Engineering Plastic Materials like PU, ABS, PP, etc.

Ecocool 700 NBF (M) is suitable for the Sawing Operation of ferrous and non-ferrous Material where water soluble cutting fluid is required.

Benefits

- **No foam.** Higher pressures and flow rates in new machining equipment generate severe conditions for a metalworking fluid, with foam generation causing poor tool life, pump damage and safety concerns. **Ecocool 700 NBF (M)** is non-foaming, protecting your personnel and equipment.
- **No tank side top-up.** Many biocides are also toxic to humans and the environment. **Ecocool 700 NBF (M)** does not need any additional biocides as its biostatic nature restricts the development of both bacteria and fungus thus extending coolant life and minimizing problems of bad odours.
- **Rapid demulsification.** **Ecocool 700 NBF (M)** does not emulsify tramp oil allowing easy removal by oil-skimming devices. Waste treatment is significantly easier.

- **Hard water stability.** Water miscible fluids show instability under harsh conditions of hard water and high chlorides content, often forming solid soaps that can deposit on machine surfaces and causing corrosion. Shows exceptional stability in water hardness up to 400 ppm / 100 ppm chlorides.
- **Seal compatibility.** Compatible with natural rubber, Nitrile and Neoprene Elastomers.
- **Superior corrosion protection.** Exhaustive testing shows that **Ecocool 700 NBF (M)** offers the best corrosion protection compared with similar premium quality coolants in the market, even in poor quality water with chloride/hardness.
- Excellent tool life in arduous cutting operation.

Application

- Recommended for central systems and individually filled machines.
- Suitable for 6000 and 7000 Series of Aluminium.
- Good performance working with Titanium material.
- Long Slump Life.
- One solution for all of your machining processes.
- Recommended concentrations:

Normal machining	4 - 6%
Difficult machining	8 -12%
Grinding	3 - 5%

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Whilst the information and figures given here are typical of current production and conform to specification, minor variations may occur. No warranty expressed or implied is given concerning the accuracy of the information or the suitability of the products. Subject to amendments.



Typical Characteristics

Properties	Value	Test Method
Colour	<1.0	ASTM D 1500
Specific Gravity at 60/60 °F	0.965	ASTM D 1298
pH 10% dilution	9.3	pH meter
2% dilution	9.1	pH meter
Corrosion Test (chip/filter test) / 3%	No. 0	IP 287 / T13 FLP
Emulsion Stability 10% /2% / 1% 24hrs	Stable	T16 FLP
Concentrate Stability O/R 24hrs	Stable	T17 FLP
Foam Test 5% (STW)	1ml foam after 5 mins.	T21 FLP

STW – Singapore Tap Water

FLP – FUCHS Laboratory Procedure

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