

ECOPPOINT

TECHNICAL DATA SHEET

By nature,
for life

Eco-Point Group

NL Canadaweg 28, 4661 PZ Halsteren T: +31(0)164-632555

E: info@eco-point.com W: www.eco-point.com

TECHNICAL DATA SHEET

Ecoolant NF. Vegetable cooling lubricant; safe for humans and machinery.

Product description

Ecoolant NF is unique due to its high-quality vegetable constituents that together form a cooling lubricant with a high cutting capacity, suitable for medium-heavy and heavy machining operations, such as turning, drilling, milling, threading, sawing, etc. of various types of metal (cast, steel and aluminium alloys, non-ferrous, titanium, etc.). Ecoolant NF is free of mineral oils, drilling compounds, formaldehyde releaser and chlorinated EP additives.

Solution areas

- Bad lubrication during various metal cutting techniques cause friction and therefore loss of tool life and increased wear of machines and equipment;
- Wear of machines and equipment also decreases precision and increases production losses.
- Low quality cutting fluids increase bacteria counts, cause an unpleasant smell, build-ups in drains, pipes and filters, increases the chances of skin disease and corrosion on work pieces and machines.
- Many cutting fluids contain dangerous components such as phenol, nitrite and other heavy environmentally unfriendly components such as heavy metals, PCBs, dioxins etc.
- Slechte begeleiding van leveranciers van koelsmeerolie.

Sustainable solution

Ecoolant NF is very human and machine friendly. Ecoolant NF provides for very high tool service lives and consequently guarantees the production of a high-quality workpiece. Eco-Point supports you in maintaining a high-quality cooling emulsion.

Special advantages

- 100% biodegradable!
- Made from vegetable esters; this provides for thorough lubrication and a high cutting capacity, and means less environmental impact compared to conventional cooling lubricants.
- Requires little maintenance and few inspections.
- Prevents the occurrence of moulds and yeasts; prevents bacterial growth and does not give off any odours during standstills.
- Human and machine friendly.
- Does not contain any mineral oils, drilling compounds, formaldehyde releaser and chlorinated EP additives, secondary amines, nitrosamines, silicones, bactericides, isothiazolinone and glycol ethers.
- Is low-foam at any water hardness.
- Can be subjected to bacteriological analysis.

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Areas of application

For medium-heavy to heavy machining of cast, steel and aluminium alloys, non-ferrous metals and difficult to machine metals, such as titanium and inconel.

Can also be used for machining operations where pure oil is used.

During milling, the 'advance' and the 'cutting depth' of a component determine its treatment time. The advance and the cutting depth are dependent on many factors, including the clamping's stability, the material's hardness, the milling type, the tools' service life, the machine's stability and the cooling lubricant!

Product instructions

To facilitate maintenance and perform it professionally and thoroughly, Eco-Point has entered into a partnership with PH Plus Solutions. Ask your product consultant about the possibilities. PH Plus Solutions specialises in cleaning, disinfecting and producing cooling lubrication systems. When you do not make use of the services of PH Plus Solutions you must look after your own cleaning and disinfecting. The following working method can be used:

Add 0.1-0.2% disinfectant (ask your product advisor for the correct product) and allow this to circulate for a few days. Drain the liquid (and dregs) from the system and rinse the system with an Ecoolant NF thinner (3%) to remove the old emulsion. After this, bring the system up to the desired percentage by mixing Ecoolant NF into the water. *Use fresh water! For example, if you use a fire hose to replenish your system allow it to run for 10 minutes first. Use the refractometer to check for the right concentration. The measured value is equal to the concentration. If necessary, consult your product consultant. Measure the concentration several times on the first day.

The concentration is primarily dependent on the type of treatment and the type of material. However, to achieve optimal results, we recommend you stay within the 8-12% range.

Comments:

To properly mix Ecoolant NF with water, we recommend that you mix the concentrate into the water while stirring, for example in a bucket. The use of warm water reduces the viscosity of Ecoolant NF and speeds up the mixing process. This pre-mix should then be added to the water in the system.

Additional aeration is recommended for machines that are often at a standstill (a simple pond pump may be enough to produce the desired results).

Any oil floating on top must be skimmed off.

Tip: appoint one or two persons to be responsible for the quality of the cooling emulsion. Use a log/sign-off register in which to record all measurements and comments.

Packing material

Eco-Point International products are packed in polyethylene H.D. or metal drums. When repeat orders are being delivered, used drums which are empty and not polluted are collected free of charge for recycling or reconditioning purposes. When incinerated, polyethylene has no harmful effect on the environment.