

Cooling lubricant

According to the manufacturer Kluthe, the water-miscible, mineral oil-containing, boron and FAD-free cooling lubricant concentrate is a modern universal cooling lubricant that is very well suited for a wide variety of applications.



Foto: Kluthe

One coolant for all purposes

Hakuform A 846 M. Kluthe recommends this very special cooling lubricant for all applications. A Bavarian metal cutting company attests with its 30 machining centers that it is extraordinarily stable.

Many medium-sized companies still use boron- and FAD-containing cooling lubricants. These cooling lubricants are no longer state of the art and often have serious disadvantages. Problems with strong odor, pollution in the workshop, fungal or bacterial contamination of the cooling lubricant baths or heavy soiling in the interior of the machines coming along with skin irritation of the employees frequently arise. In many companies, different cooling lubricants are used within a workshop in order to meet the different requirements of the individual operations. This leads to increased monitoring efforts and higher processing costs.

A practical example is a manufacturer of cardan shafts and hydraulic components from Bavaria, who specializes in the development, production and repair of cardan

shafts, hydraulic components and hydraulic systems.

Better machining and tool life

There are 30 machining centers from various manufacturers in use. These are used for turning, drilling and milling a wide variety of components, mainly made of steel. The wish of the plant manager was to carry out all machining operations with one cooling lubricant and to solve the above-mentioned problems.

The analysis of the situation on site, quickly showed that HAKUFORM A 846 M is the ideal cooling lubricant. The water-miscible, mineral oil-containing, boron- and FAD-free cooling lubricant concentrate is a modern universal product that is very well suited for a wide variety of applications. The powerful additive

combination enables improved machining results and tool life. Long bath lifetimes are also given with different water qualities.

In the first step, three machining centers with a bath volume of 1,000 L each were cleaned and all types of machining were intensively tested. Regular bath analyses proved the exceptional stability of the cooling lubricant. After consistently convincing test results, all further machining centers were switched to HAKUFORM A 864 M and have since been running successfully at 7% concentration.

Bacterial and fungal problems have not occurred again, even during the plant holidays with three weeks of machine downtime. The stable emulsion baths can also convince with a low make-up concentration. The machine operators report significantly

cleaner equipment, odor nuisance in the factory hall is a thing of the past. The service life of drills and cutting inserts has also increased by around 25% on average. A convincing example of the use of modern Kluthe cooling lubricants. KB ■

 **Web guide:**
[kluthe.com](https://www.kluthe.com)