



# Siebert News

## Effective cleaning of metalworking fluid systems

## An effective metalworking fluid change in six steps

In this newsletter, we reveal how your customers can clean their metalworking fluid systems effectively, ensuring better process reliability and a longer service life. We've compiled six essential steps that are not only easy to understand and implement, but also save money in the long term.

### **Step 1: System cleaning fluid – the best preparation for a metalworking fluid change**

We recommend using a system cleaning fluid and adding it to the existing emulsion until it makes up a proportion of 1.5 to 2 percent. This should be done at least 8 hours – or ideally 24 hours – before the metalworking fluid change.

As well as absorbing machine oils, the system cleaning fluid eliminates unwanted germs and bacteria. Make sure that the fluid is added to the emulsion gradually to avoid foaming.

### **Step 2: Emptying of the metalworking fluid system**

Once the system cleaning fluid has had 8 to 24 hours to take effect, the metalworking fluid system can be drained. The emulsion containing the cleaning fluid can be siphoned off.

### **Step 3: Cleaning**

Now, it's now to clean the metalworking fluid system. Whether this is done mechanically, manually with a cloth or using pressure washers depends on the machine in question. Once the process is complete, the cleaning residues should also be removed from the system.

#### Step 4: Rinsing, rinsing and more rinsing – the key to an effective metalworking fluid change

Next, it's time for the most important step in a metalworking fluid change: rinsing. In our experience, this is a process that is frequently neglected. However, rinsing is the most decisive factor in a metalworking fluid change. The fresh rinsing emulsion (with a concentration of approx. 2 to 2.5%) doesn't just provide effective protection against corrosion – it removes even the toughest deposits of dirt and contaminants.

Thanks to its cleaning power, even the most stubborn dirt is removed effectively from pipes, and the cleaning fluid is flushed completely out of the machine. The duration of the rinsing process depends on the machine. The more carefully you approach the task, the clearer and more powerful the new emulsion – and the longer the service life – will be.

#### Step 5: Manual cleaning

Once the machine has been thoroughly rinsed, the cleaning emulsion can be siphoned off. We recommend quickly wiping the machine down with a cloth.

#### Step 6: Refilling the metalworking fluid system

You can now refill the machine with fresh, new emulsion. Ideally, a mixing unit should be used in order to achieve a homogeneous emulsion in the system from the outset, thereby ensuring an optimum machining process.

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|---|----------------|---|---------------------|---|-----------|
| 1 | Cleaning fluid | 2 | Draining            | 3 | Cleaning  |
| 4 | Rinsing        | 5 | Follow-up treatment | 6 | Refilling |

## A metalworking fluid change should never be rushed

An effective and efficient metalworking fluid change takes time. It's worth the effort, however, for the new emulsion lasts considerably longer and works better when the machine is prepared for the metalworking fluid change with a system cleaning fluid, rinsed multiple times with the rinsing emulsion, and given a thorough manual clean to finish.

At Siebert, we'll be happy to guide you through this process so that your customers can obtain the best possible performance from their machines following a metalworking fluid change.



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