STREAMER© - THE LIQUID FILE

The MicroStream® flow machining® is a **mechanical removal process.**

The **STREAMER©** is the tool for the MicroStream© abrasive flow machining. The STREAMER© is chemically inert, non-corrosive and non-aggressive.

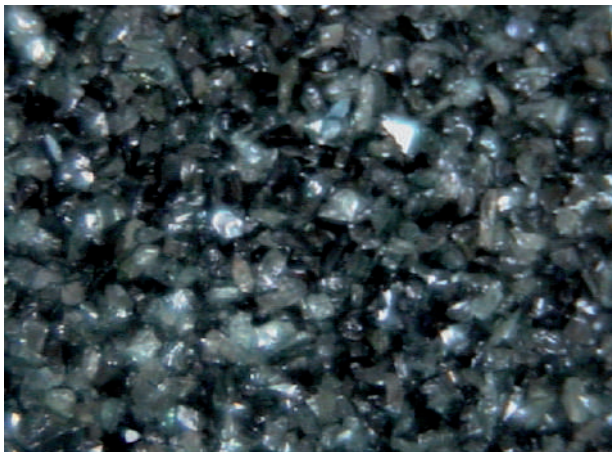All **STREAMERS©** are a mixture of a **basic medium and abrasive grains.**

> **Oil + Stearate → Gel**
>
> **Gel + Polymere → Base**
>
> **Base + Grain → STREAMER©**

Streamer

Grains

The abrasive medium is the key component in Abrasive Flow Machining.

It consists of a mixture of the carrier material with special rheological characteristics and abrasive grain. This highly viscous mixture must be soft enough to show good flow properties. At the same time it must be stiff enough to press the grains with sufficient pressure against the workpiece surface to generate the required abrasive effect.

Custom made formulations are created for the different processing tasks e.g. polishing, deburring and edge rounding.

In principle all types of abrasive grains can be mixed with the medium.

The abrasive materials that are most frequently used in the **STREAMER©** are:

- ☑ silicon carbide (S)
- ☑ corundum (K)
- ☑ boron carbide (B)
- ☑ diamond (D)

Streamer at work

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Applications:

- ☑ Machining the inner surfaces of drill holes
- ☑ Machining of hard to reach drill holes, deburring gaps, grooves and edges, whereby several drill holes and edges can be processed at the same time
- ☑ Rounding edges consistently and regularly, for example tooth flanks and the edges of gear wheels
- ☑ Removal of martensite layers following erosion

The result = absolute precision!
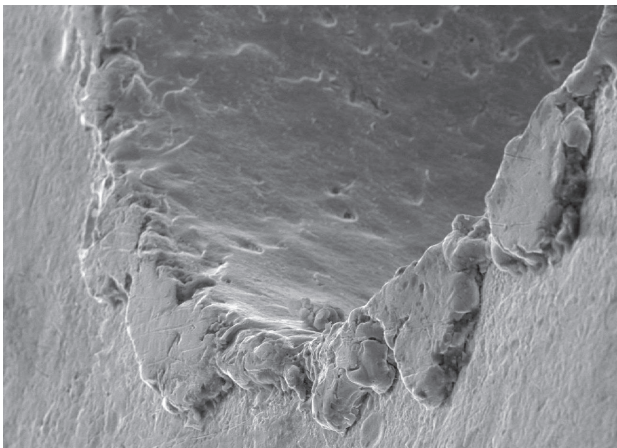
Before
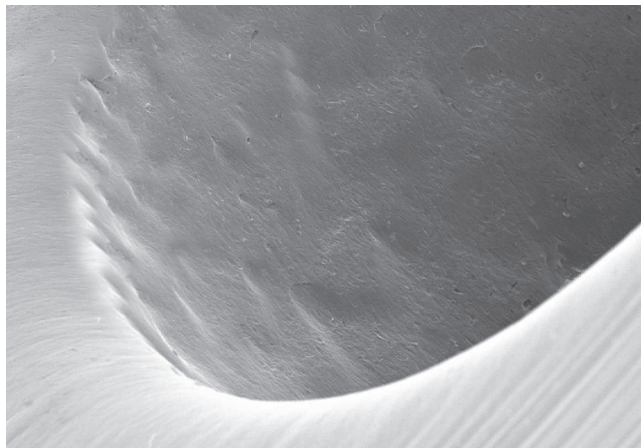
After

We will be pleased to develop the most efficient abrasive media formulation for your machining task. Contact us.