

RheoStream®

- ✔ Shorter production time
– higher capacity
- ✔ Consistent quality
- ✔ Lower cost

RheoStream® is a fully automated process rheometer. With RheoStream you can monitor the viscosity profile of *paints, coatings, inks, adhesives, detergents, shower products and lotions*.

Currently, *non-Newtonian fluids* must be controlled by manual QC methods. RheoStream is the first process rheometer for such liquids.



RheoStream® FC

Use case: paint. Payback in under a year

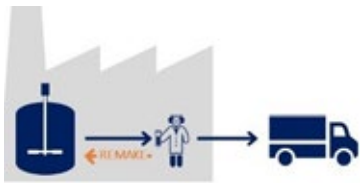
Paint is made in a batch process by dispersing and mixing raw materials in a 1-tank or 2-tank setup, followed by quality control. Currently, samples are carried to the QC equipment and the results are available within 30-120 minutes. Normally, 20-50% of batches require at least one adjustment, followed by another manual QC. Most adjustments are made to correct viscosity defects

Case: Using RheoStream, a factory with 15 mixer tanks can reduce total production time by over 30%, resulting in 30% higher capacity, and / or potentially large operational savings. Payback is achieved within a year.



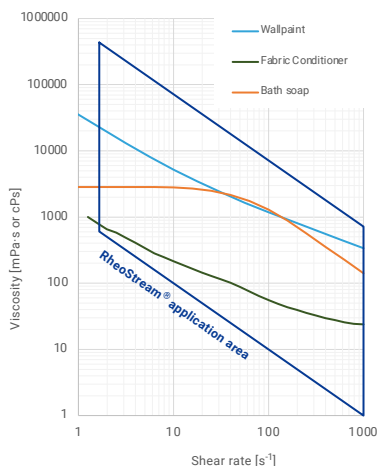
RheoStream installed in a paint factory.

Automatic rheology control in your manufacturing process



With RheoStream, viscosity can now be automatically adjusted: no more waiting for manual analysis and no more reprocessing or scrapping of off-spec product. You get a complete log of the material produced, and you also gain new insight into process variations. Remove human error from the equation: RheoStream measures the same way every time, and with greater precision than most QC procedures.

With RheoStream® you can track the viscosity profile of non-Newtonian fluids

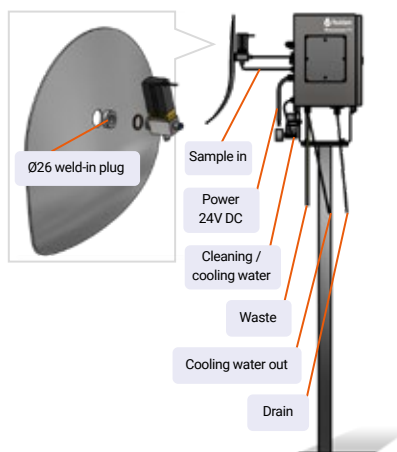


Use RheoStream to track the viscosity profile:

Shear rate 2-1000 s⁻¹
Viscosity (@ 10 s⁻¹):
100 – 50,000 mPa.s
Precisely controlled measurement temperature, 20-40°C

RheoStream performs a new measurement every 1-3 minutes, using a 5 ml sample for each measurement.

Easy installation of RheoStream®



RheoStream is installed close to the process equipment – it can easily be installed on a pipe or a tank.

A mounting rack ensures that RheoStream is maintained in the correct position. RheoStream draws in a small sample, carries out the measurement, expels the sample, and then moves on to the next sample. RheoStream is automatically self-cleaning, and has its own supply of cleaning liquid. Self-cleaning is performed at programmed intervals.

RheoStream interfaces with the factory control system. The interface can either be fully digital (OPC-UA protocol), or it can be an analogue signal via a PLC.



RheoStream® FCX – for ATEX zone 2

Certifications and standards

CE compliant according to:
EU Machinery Directive
EMC Directive
Low Voltage Directive
RoHS Directive

Cabinet protection class IP65
ATEX zone 2 version available

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