

- **Analysis laboratory**

**Rotating rheometers:** viscosity, viscoelasticity, thixotropy, reaction monitoring, creep, penetrometry, texturometry, LAOS, traction

Temperature regulated from -150 °C to +600 °C, pressure up to 200 bar:

TA Instrument: ARES-G2 et DHR3

Anton Paar: MCR 501

Thermo Haake: Mars III, VT-IQ et Caber

→ Measurements in the laboratory or on site

**Capillary rheometers:** 400°C / 2000 bar

**DMA and particle size analyzers**

**Extruders and mini injection press**

**Measurement of interface:** surface tension, interfacial viscosity and tribology

**Partner tools:** SEM, DSC, HPLC and spectrophotometer

- **Technical study office**

**For all fluid types:** gels, pastes, emulsions, suspensions, molten polymers and in solution, resins, slurries, powders ...

**For all process types:** Pumping, transporting, mixing, smearing, emulsification, extrusion, spraying ...

- Collaborative projects
- Development of process pilot systems
- Design and construction of instrumentation
- Audits on site

- **Training center**

**Basic training:** fundamental concepts and general applications

**Advanced training:** specific applications to the industrial field

**Rheology:** Science of flowing matter, the stress applied to it and the resultant structural modifications

**Control and  
formulation of your  
complex fluids**



**Optimisation of  
your processes**

# Rheonova, custom solution at each stage of the product's life for all industry sectors

## Multi-sector expertise



### Research & Development

- Formulation and sourcing
- Forming solutions adapted to the product



### Industrialisation

- Pilot testing in real conditions
- Dimensioning design and scale-up



### Valorisation

- Comparative analysis
- Development of scientifically-based sales pitch



### Production

- Defect reduction
- Customised inspection methods (in-line and off-line)



### PRODUCER Raw material

**Agro-resources**  
**Oil extraction and mining**

E.g.: Study of the performance of additives for transporting wax-base crude oil in pipelines



### PROCESSOR Formulated product

**Surfacing materials**     **Chemical Engineering**  
**Pharmaceuticals**     **Food industry**

E.g.: Optimisation of a reactor through characterisation and numerical simulation of a metallic slurry



### USER Application

**Civil engineering**     **Cosmetics**  
**Plastics**     **Printing**

E.g.: Comparative study of hyaluronic acids and development of a scientifically-based sales pitch.



### RECYCLER Reconditioning

**Anaerobic digestion**  
**Waste treatment**

E.g.: Dimensioning of heat exchangers for station sludge treatment.