



What is RHEOMIX ?

RHEOMIX is one-year project in collaboration with Anton Paar, world leader company in the field of rheometry.

The project aims to promote the use of highly heterogeneous materials (HHMs) within the processing industry by providing an innovative laboratory configuration by using a MCR Rheometer and procedures specifically designed for this family of materials.

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Project

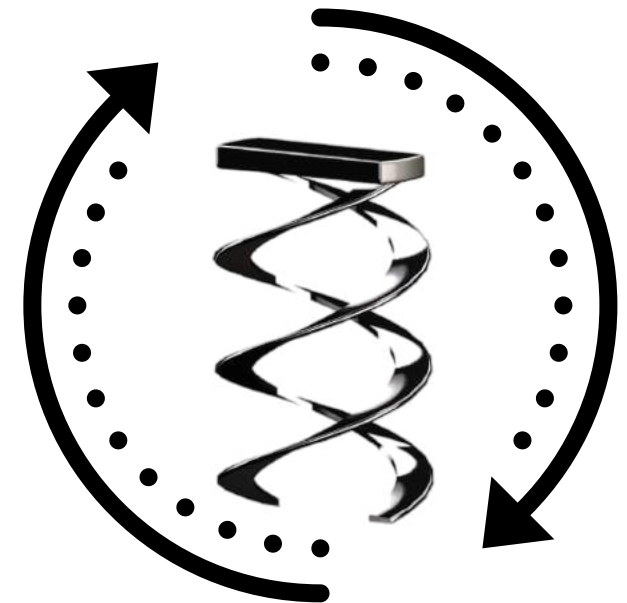
Improving Rheometry and Rheology of Complex Materials

<https://tinyurl.com/rheomix>

RHEOMIX

-Project-

Enhanced mixing rheometry for highly heterogeneous materials



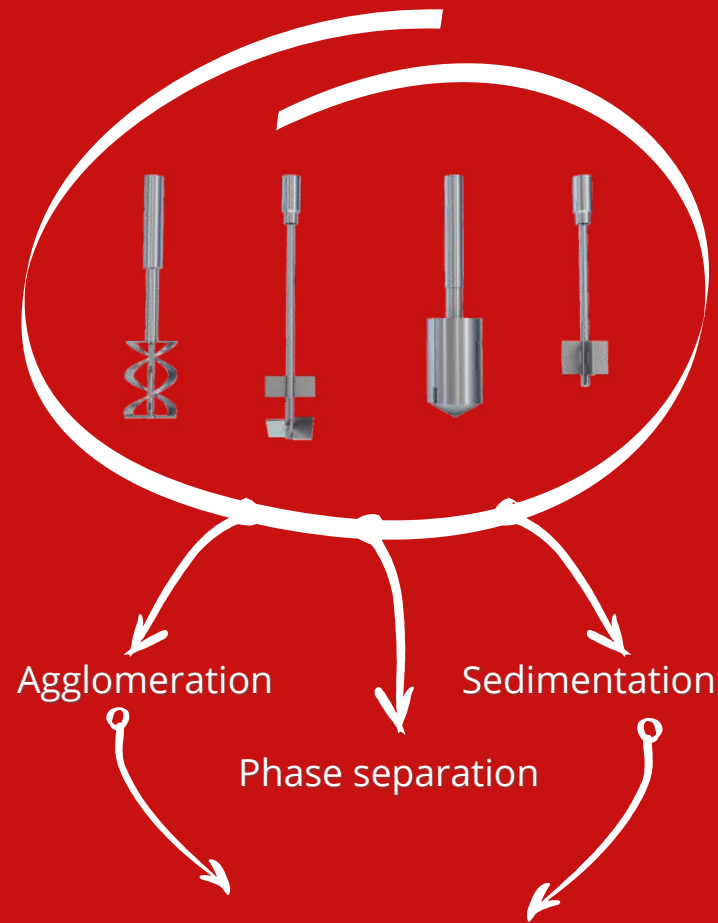
Objectives

- To identify, design and calibrate by means of a combined numerical-experimental approach a novel testing geometry, that will allow performing more realistic and repeatable rheological measurements of HMMs while ensuring the sample stability.
- To develop an improved laboratory application for real-time monitoring of HMMs' rheological properties during manufacturing and hot storage aimed to produce materials with enhanced performance by governing the modification process and the processing conditions.

Expected Results

- Enhanced mixing rheometry to characterise the rheological behaviour of a wide range of HMMs.
- Optimised procedures/tests specifically designed for HMMs.

Current rheometry devices for HMMs



Designed for
different purpose

RHEOMIX is developed by



Università
degli Studi
di Palermo



Anton Paar

