

Flowability Characterisation of Biomass and Fibrous Particles in a New Failure Test Apparatus



The interest in topics like **recycling**, **biomass** or **fibre-reinforced materials** increases strongly. New processes and materials are attended with the upcoming questions of **reliable storing**, **conveying** and **dosing** devices. An important yet difficult aspect of this is the prediction of the flowability of **non-spherical** particles because conventional methods have not shown trustworthy results for these particles.

Thus, this *experimental work* deals with the investigation of the **test boundaries** of a **newly developed device** for determining the failure strength. Therefore, different **materials** and **geometries** will be tested regarding their impact on failure strength at different **preconsolidation stresses**. Furthermore, the horizontal to vertical **stress ratio** of the materials shall be measured using this device.



Failure test with
„pressure pot“

Anmerkungen:

Suitable for **Studienarbeit**, **bachelor** and **master theses** for students of the department of mechanical engineering

Beginn: now

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