

Filtration aids



DOLASAN, CASTMATE®

The **efficiency** of the pressure casting process, as well as the cost effectiveness of conventional slip casting, **is dependent** on the output per unit time which in turn **depends on the casting rate**.

The casting rate is decisively influenced by the finer particle sizes. In general, an **increased proportion of fine particle sizes in the body** produces a **higher green strength**. However, because of the high migration speed of the fines, the high fines content can cause the **formation of a dense skin between the slip and the mould wall**. This skin impedes both de-watering and a better casting rate as well.

Under the names of **DOLASAN** and **CASTMATE®** Zschimmer & Schwarz offers a series of filtration aids, which lead to the **agglomeration of fine particles**. And a more **even de-watering** is the result.

The agglomeration of the fines and thus the improved de-watering lead to a **homogeneous particle distribution** and hence **uniform contraction** is obtained. This results in a **homogeneous cast free from internal stresses**.

The use of filtration aids effects the following advantages for conventional casting as well as pressure casting:

- no sedimentation phenomena
- good interlocking at transitions from hollow casting to core casting
- better removal from the mould.