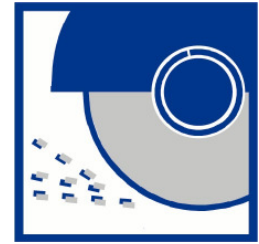


Pressing agents



ZUSOPLAST

Application

Pressing agents promote **better moulding characteristics**, and hence contribute to the **optimization of axial pressing**. They lead to a **homogeneous compaction** during pressing, and bring about a **reduction of the internal stresses** that can lead to faults, especially cracks, in the grinding wheel in the subsequent technological steps. **Friction inside the pressed article, as well as between the article and the mould wall, is reduced**. A **prolongation of the mould life** is thereby possible.

In order to obtain the **optimum coating of the particles** and hence **the highest effectiveness of the pressing agent**, it should be pre-mixed with the abrasive particles. After the wetting of the abrasive particles the addition of the ceramic bond can be made. There is also the possibility of using **water immiscible forming and pressing oils which are low in harmful substances**. These pressing oils are **sprayed onto the mould**, where they lead to the formation of a **release film**.

Mode of action

The pressing agents from Zschimmer & Schwarz are produced from **raw materials based on fatty acids** and **polyoxyethylene preparations**.

By **coating the particles** with pressing aid, a **sliding film is built up** and the resulting **reduction of internal friction** in the ceramic body leads to a more homogeneous compaction with the associated reduction of internal stresses. The formation of a **sliding film between body and mould** similarly reduces **friction**.