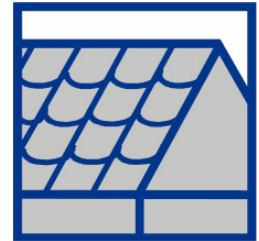


Pressing agents



ZUSOPLAST

Application

Pressing agents act as pressure equalizing agents. They lead to **better shaping properties** and therefore to an **optimization of the pressing process**.

They are used in isostatic as well as in axial pressing of granulates and bodies. Pressing aids improve the flowability of the body under pressure and lead to a **homogeneous compaction in the pressing process** over the entire cross-section, therefore **reducing internal stresses**, which can lead to damages in the technological processes, that follow.

In the compaction of spray granulates, pressing agents can further act as **softeners**, so that during pressing a **simple breakdown of the residual granulate structures** becomes possible.

Friction inside the pressed article, as well as between the article and the mould wall, is reduced. An **increase in effective mould life** is therefore possible. The sticking tendencies of the body on the mould wall can also be decreased.

Mode of action

Pressing aids from Zschimmer & Schwarz are produced from raw materials based on **polyoxyethylene preparations**.

By coating the granulate particles with pressing aid, a lubricating layer is built up, and the **decrease of internal friction** in the ceramic body that is associated with this, leads to a homogeneous compaction, and thus contributes to a reduction of internal stresses. The formation of a lubricating layer between the body and the mould similarly reduces the frictional forces occurring there.

There is also the possibility of using non water-miscible, low-hazardous forming and pressing oils. These pressing oils are sprayed onto the granulate prior to pressing, and similarly give rise to the formation of the previously described lubricating layer, through a coating of the individual granules.

Detailed information on this topic is given in our special information **“Information about low-hazardous forming and pressing oils”**.