



## Pressing agents

### ZUSOPLAST

#### Application

Pressing agents serve as pressure equalization agents. They lead to **better shaping characteristics** and are therefore responsible for **optimizing the pressing process**.

They are used in the isostatic pressing of spray granulates as well as in dry pressing bodies.

They permit easier flowing of the bodies under pressure and lead to a more **homogeneous compaction in the pressing process** over the entire component cross-section, thereby **reducing microstructural stresses**, which may cause defects in the processing steps that follow.

When pressing spray granulates, pressing agents can also help to **soften** the inner granulate, so that it can be easily compacted in the pressing process without leaving residual granulate structures.

The friction within the pressed part and between the pressed part and the mould walls is reduced during the pressing process. An **increase in the mould life** is thereby possible.

A **reduced tendency for the body to stick** to the mould wall can also be realized.

#### Mode of action

The raw material base of the pressing agents available from Zschimmer & Schwarz are **polyoxyethylene preparations**, **fatty acids** and **oil preparations**.

The pressing agents are water-miscible or emulsion systems, whereby the release oils are water-insoluble products.

Pressing agents are responsible for the creation of gliding planes within the raw material as well as between body and mould walls, leading to a **decrease in inner and outer friction** during the pressing process. These additives are incorporated into the bodies.

Release oils in the group are low-hazardous forming and pressing oils that are applied onto the moulds to make **better release** of the body possible.

Research and results to this topic are presented in our special information **"Information about low-hazardous forming and pressing oils"**.