

Pressing agents



ZUSOPLAST

Application

Pressing agents among other things are used for the preparation of isostatically pressed bodies and bring about an **improvement of the forming and moulding characteristics**.

These additives facilitate the flow, of the granulate under pressure, thus leading to **homogeneous compaction** over the whole cross section of the article during the pressing process. Hence, this contributes to a **reduction of the internal stresses**, which can lead to damages, particularly cracks and breakages during the technological processes, that follow.

Pressing agents further **act as softeners** within the individual granules so that during pressing a **simple breakdown of the residual granulate structure** 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** thereby possible.

Mode of action

Pressing agents from Zschimmer & Schwarz for the tableware sector are produced from raw materials based on **polyoxyethylene preparations**.

By coating the individual granulate particles with pressing agent, 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.