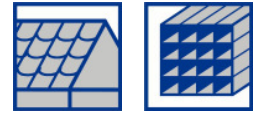


Release agents



ZUSOPLAST

Application

Release agents from Zschimmer & Schwarz are available either in liquid or paste form. They are generally **applied onto the mould** where they act as a greasing, lubricating and releasing agent between the moulded shape and the mould.

To achieve a release effect on the extruder screw and die during the extrusion process, the agents can be **mixed into the bodies during the preparation** as well.

In the series of **low-hazardous forming and pressing oils**, products are available that are especially appropriate for **spraying** since they **do not produce an atomised oil mist**. This is a definite advantage with respect to workplace contamination. The **formation of odours during the production process is strongly reduced** with these release oils compared to the mineral oils usually used. **Evaporation starts at low temperatures** and therefore the parts manufactured using these oils can thus be brought to the same residual moisture at lower temperatures. The dryer cycle time can also be reduced at this same temperature, or products can be dried to a lower residual moisture.

Compared to the conventional mineral oils, from which no conclusions about their combustion products can be drawn due to their undefined composition, the described release oils considerably **reduce environmental pollution** since they **burn residue-free to CO₂ and H₂O** in oxidizing conditions. The cost for expensive cleaning processes can therefore be decreased.

Thanks to the better release effects, the amount to be used can be reduced, thus leading to a further reduction in pollution.

Mode of action

The release oils from Zschimmer & Schwarz are based on **raw materials from natural gas synthesis** as well as on **by-products from the manufacture of foodstuffs**. They are free from aromatics as well as from sulphur and nitrogen containing compounds. The use of these defined raw materials leads to the described advantages in the production process.

The release agent effect is based on the **formation of gliding layers** between the body and the mould walls or dies.

Reduced friction thus permits **longer mould life**.

Oil mist formation during spraying is inhibited through the incorporation of an aerosol binding additive in the release oil.

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

