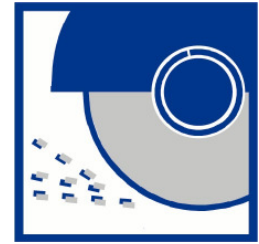


## Porosity inducing agents



### PORLAT K

#### Application

The use of porosity inducing agents serves the **specific adjustment of pore size, pore volume and pore distribution**. These parameters are of significant importance when the grinding wheel is in use to assist the removal of grinding debris, and the transport of cooling medium. Depending on individual customers requirements, porosity inducing agents are available in 6 defined particle sizes from 0 to 1.5 mm.

#### Mode of action

As **environmentally compatible** porosity inducing agents for the **production of grinding wheels** Zschimmer & Schwarz offers products based on **acryl glass** which are used alternatively to naphthalene. (Naphthalene has been classified as carcinogen categorie 2 from the DFG senate commission for the judgement of unhealthy working media in the MAK-BAT-list since 2001.)

With regard to thermal requirements, these porosity inducing agents show an increasing weight loss depending on temperature, kiln atmosphere and cycle time. Up to a temperature of approx. 150  C no **de-polymerisation** takes place; this starts at relatively high speed at temperatures above 180  C. In an oxidizing atmosphere, ultimately a **residue free decomposition to H<sub>2</sub>O and CO<sub>2</sub>** occurs, leaving behind well defined pores.



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