

REALIZE YOUR VISION

WATER BOOST

Sustainable. Efficient. Future-ready.

NEW
GENERATION OF
FEEDSTOCKS

KEY ADVANTAGES



Cost savings



Energy efficiency



Process optimization



Sustainability



1. INJECTION MOLDING & SHAPING

Suitable for automation handling with excellent demoldability, low sticking tendency and high green strength. Possible wall thicknesses of more than 10mm open new design options.



2. AQUEOUS PRE-DEBINDING

Debinding with only tap water – no need for chemicals or heating. For example, in thin parts the binder can be removed much faster: > 30% in just 8h or > 50% within 48h.



3. THERMAL DEBINDING

Processing time is reduced by over 50% and thermal debinding can be integrated into sintering, which saves energy and time. Lower residual organics reduce scrap and risks.

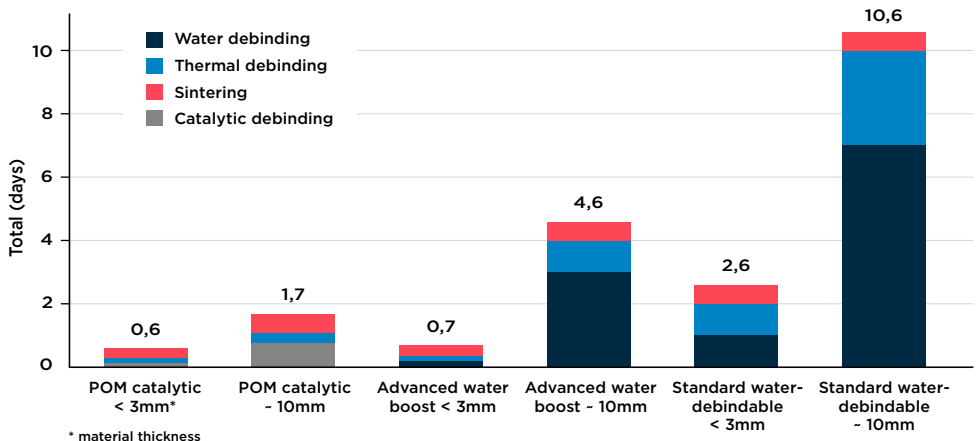


4. SINTERING & FINAL PRODUCT

Parts require minimal post-processing due to high dimensional stability and density as well as excellent homogeneity and low ash content.

FASTER DEBINDING, THICKER PARTS, MORE POSSIBILITIES

With the new water boost feedstocks extraction times are reduced from days to hours, thermal debinding steps are shortened by more than half and – in comparison to the traditional POM and nitric acid route – debinding only requires simple tap water at room temperature.



WHO IS KRAHN CERAMICS?

We accompany innovators and product developers in shaping the product world of tomorrow. In doing so, we create scope for creativity and inspire developers with new perspectives.

KRAHN Ceramics acts as an innovative project partner and source of inspiration for processing ceramic and metal powders. We accompany our customers from raw materials to finished components across all process stages. Our portfolio includes both products and services such as powders, binders and compounds for injection molding applications, compounding and molding processes, as well

as debinding and sintering, and surface treatment.

With our technical center in Dinslaken, we have a site dedicated to developing customer-specific ceramic solutions, including formulations for all common molding processes. Additionally, our production capacities in Hamburg specialize in manufacturing ceramic injection molding compounds.

We operate worldwide and, as part of the Otto Krahn Group, have strong structures and a comprehensive network in Europe, Asia and the USA.

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Any information given on the chemical and physical characteristics of the products supplied by us, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the customer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended. The customer is solely responsible for confirming the suitability of the product for a particular application, its utilization and processing and must observe any applicable laws and government regulations. No express or implied recommendation or warranty is given with regard to the suitability of the product for a particular application. At all times, our standard terms and conditions of sale apply.