

Water5⁺ wheat flour

Hydro-Booster concentrate

Activated, highly functional special flour for the production of all baked goods of the highest quality.



Functional special flour

Water5⁺ wheat flour and the Hydro-Booster concentrate are further innovations of Bindewald+Gutting Mühlen-gruppe, who consistently pursue the target of optimum baked good quality and increased enjoyment value.

This development approach is aimed at offering a selection of activated special flours whose baking-related advantages can be achieved by merely physical processes.

These declaration-free refined special flours enable the production of high-quality baked goods which stay fresh longer and have other decisive advantages as well.

Water5⁺ wheat flour is suitable for all dough processes, including long processes at temperatures from 0 to 5 °C.

All the demanding processes (i.e. baking and freezing processes) associated with dough preparation and ripening can be positively influenced by using Water5⁺ wheat flour.

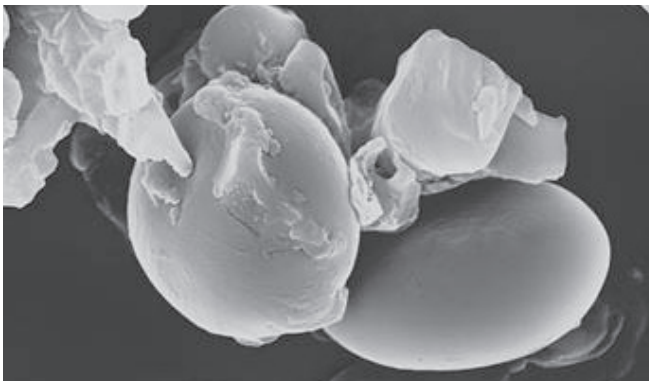
Added values

- Retrogradation of the starch is slowed down
- Hydrophilic additives are avoided
- Baked good yield is increased – value creation
- Crumb softness is improved

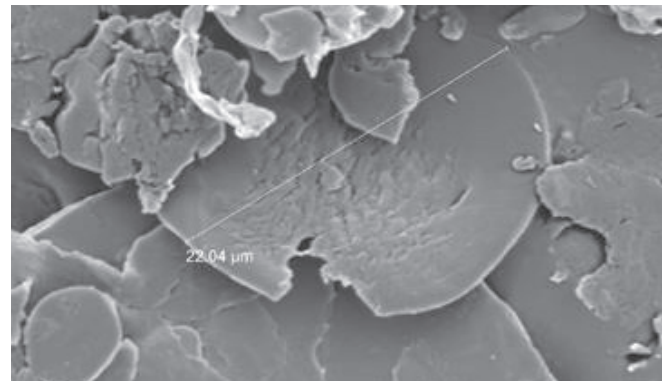
The process

We have successfully been able to develop a purely mechanical process which enables solid, compact starch granules to be perforated in a controlled way. Thanks to mechanical perforation, the dough water is able to attach to the enlarged surface in an ideal way and then penetrate it. Due to the capillary forces involved, it also serves as a transport medium for the own enzymology of the flour into the starch granule.

The process concept stipulated as little heat as possible to be generated. This enables the type-specific functional viscoelastic properties of the proteins gliadin and glutenin to be fully retained and remain unchanged.

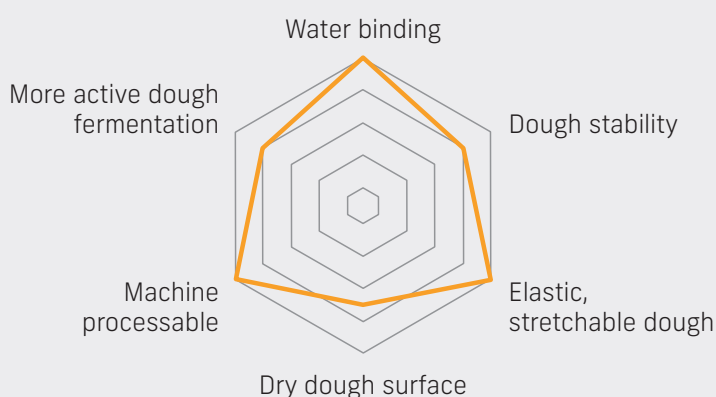


Microscopic image of native wheat starch



Microscopic image of wheat starch which has undergone controlled perforation

Advantages of Water5⁺



Product features

