

NaturalSpecialities, the specialist in extraction of botanicals

Extraction & purification of natural products Continuous process Belgian based manufacturer Quality systems: FSSC22000 and c-GMP RSM Q7

BREWTAN®

Natural Solutions for Craft Breweries



Brewtan® - how to use

Brewtan® is supplied as a granular powder Always use Brewtan® as a solution





Preparation of a Brewtan® solution

- → Brewtan® solutions are prepared by adding Brewtan® to brewing water. Adding brewing water to Brewtan® can lead to poor dissolution and lump formation.
- → For every kilogram of Brewtan® use 10 litres brewing water.
- → Add brewing water to a mixing tank and gradually add Brewtan® while stirring. Do not add Brewtan® all at once as this can lead to lump formation and difficult dissolution.
- → Allow for complete dissolution under continued moderate stirring.
- → Cold water can be used. Brewtan® will dissolve more rapidly in hot water (e.g. 40 -60°C).





Brewtan® B at mashing-in

Taste & Flavour stability

- → Metal complexation
 - Binding of free metal ions
 - Inhibition of oxidative reactions
- → Anti-oxidant
 - Preservative
 - Colour stabilisation

Brewtan® B at the end of boiling

Colloidal stability

- → Protein binding through complex formation
- → Selective removal of haze sensitive proteins

In order to be outstanding in the market in terms of flavour & colloidal stability, the combined use of Brewtan® B at mashing-in and at the end of boiling is recommended.

Tanal 02 at maturation

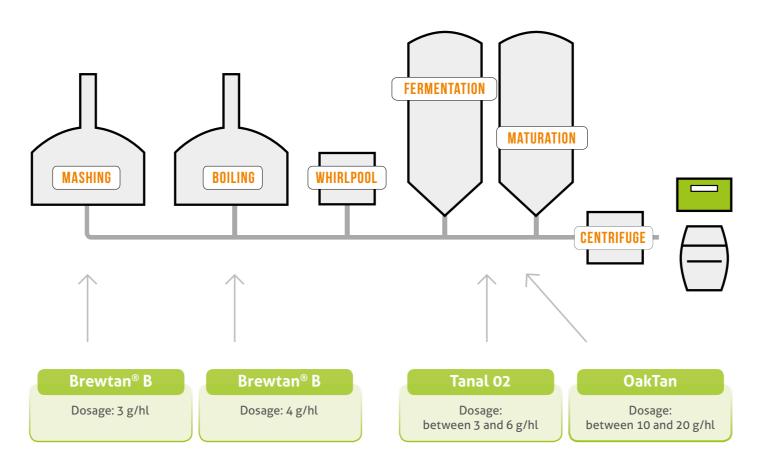
Haze enhancer

- → Interact with haze sensitive proteins in order to enhance yeast & colloidal suspension in beer
- → Immediate reaction

OakTan at maturation

Mimics barrel ageing

- → Different grades available, based on American and French oak
- → Toasted and untoasted variants



Brewtan® B at mashing in

- → Dose the Brewtan® B solution in the brewing liquor PRIOR to addition of the raw materials.
- → In combination with enzymes: dose the enzymes at least 5 to 10 minutes after the addition of the raw materials. Sequence of addition to mash tun: brewing liquor – Brewtan® B solution – raw materials – enzymes.

Brewtan® B at end of boiling

- → Dose the Brewtan® B solution 5 minutes before the end of boiling (at a time there is still enough turbulence in the kettle) OR
- → Dose the Brewtan® B solution IN LINE during transfer from the kettle to the whirlpool.
- → If used in conjunction with copper finings, add the Brewtan® B solution 5 minutes before the copper finings.

Tanal 02 at maturation

- → Make a 10% solution similar to "Preparation of a Brewtan® solution".
- Dose the Tanal 02 solution proportional during transfer from fermentation to maturation

OR

→ Dose the Tanal O2 solution via the bottom of the unitank, followed by 30 minutes of CO₂ sparging.

OakTan at maturation

- → Make a 10% suspension. Follow the same protocol as "Preparation of a Brewtan® solution". In this case a suspension is obtained.
- → Dose the OakTan solution proportional during transfer from fermentation to maturation
- → Dose the OakTan solution via the bottom of the unitank, followed by 30 minutes of CO₂ sparging.