

TECHNICAL INFORMATION SHEET:

PGA POWDER

PRODUCT NAME:
PGA POWDER

PRODUCT CODE:
PGA

COMMODITY CODE:
13023900

PACKAGING:
1 KG

Description

PGA (Propylene Glycol Alginate) Powder is a specially prepared food grade propylene glycol alginate derived from brown seaweed. It is used as a beer foam stabiliser.

Benefits

- Protects beer foam against contaminants at dispense e.g. dirty glasses
- Enhances foam stability of beers with a naturally high level of foam inhibitors
- Enhances foam adhesion to the sides of the glass
- Improves measured head retention value in beers

Principle

Propylene glycol alginate is a molecule possessing both



TECHNICAL SUPPORT

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REGULATORY COMPLIANCE INFORMATION

Refer to the **Product Specification Sheet** or contact us on

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HEALTH & SAFETY INFORMATION

Refer to the **Safety Data Sheet (SDS)**

hydrophilic and hydrophobic portions, thus modifying bubble wall characteristics. PGA concentrates at the surface of the bubble with the hydrophobic end interacting with gas molecules inside the bubble and the hydrophilic part in contact with water molecules outside the bubble in the liquid forming the bubble wall. There is less attraction between the hydrophobic groups than there is between the water molecules in which the PGA is dissolved, so the surface tension at the bubble surface is reduced, stabilising the foam structure.

Application and rates of use

The solution of PGA Powder should be added to beer after final filtration and not in combination with any other additions. This product requires special equipment to prepare, please purchase PGA Solution if unsure.

Preparing the product before use

Before it can be used, the product must be dissolved in water:

- Set up a mixing tank with a high shear mixer (e.g. Silverson, Y-tron, Greaves)
- Fill the mixing tank with water at a temperature of between 30 and 40°C
- Turn on the mixer
- Add to the tank the PGA Powder at a rate of 20g/litre of water
- Mix until the tank contents appear to be homogeneous
- Filter the solution

An addition to beer of 0.2 litres/hl of a 2% solution of PGA Powder will

ensure retention of beer head. To enhance the beer head, use a rate of 0.4 litres/hl. The maximum recommended addition of such a solution is 0.5 litres/hl and should not be exceeded.

Guidelines for use

- Check that the product is within its shelf life before use.
- Carry out optimisation trials to determine the correct rate of use.
- Remember that PGA solutions are temperature sensitive.
- Use the product quickly after making up the solution.
- Read the Safety Data sheet prior to use.

Storage and shelf life

- Keep in original container.
- Keep containers sealed when not in use.
- Keep in a cool, well ventilated area and protect from Sunlight.
- The shelf life at the recommended storage temperature is three years from date of manufacture.

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