



PRODUCT NAME:ZETOLITE 65

PRODUCT CODE:ZET65

COMMODITY CODE:25309000

PACKAGING: 250 grams, 10KG, 20 KG

TECHNICAL INFORMATION SHEET

ZETOLITE 65 - FLAVOUR MODIFICATION

Description

ZETOLITE 65 is a blend of naturally occurring volcanic material and zinc salts, formulated to prevent the occurrence of sulphidic favours in fermented beverages

Benefits

- Prevents H₂S and DMS off flavours in the fermented product
- Improves rate of yeast growth
- Prevents slow and stuck fermentations
- Concentrated powder product
- Is a processing aid (not an additive)
- No residual Zinc left in the product

Principle

It is well known in the brewing world that zinc and copper are required by yeast in trace amounts for cell growth, respiration and reproduction. They enjoy better viability and vitality when these compounds are present in the nutritional mix presented to the yeast.

Murphy & Son Ltd in conjunction with the Zetol Cooperation have developed a product called Zetolite that can be added to wort at the start of fermentation or to beer at the start of maturation to assist in the healthy growth of yeast and in particular to either prevent or reduce the incidence of sulphidic compounds such as hydrogen sulphide or dimethyl sulphide.

Zetolite consists of an aluminosilicate carrier, commonly called zeolite, which is impregnated with either zinc or copper ions. It is a pale pink/red or dark grey powder and is dosed at low levels.

Application

The product should be slurried with a small amount of water or the wort to which it is to be added. It should be added to the fermenter as the start of fermentation.

Rates of Use

The product should be added at a rate of between 0.25 and 1 gm per hectolitre of wort. It is recommended to use the higher rate if a high amount of sulphidic compounds are experienced in the product.

Guidelines for use

Check that the product is within its shelf life before use

Experiment with additions to determine the minimum effective rates

Read the Material Safety Data sheet prior to use

Care should be taken to avoid unnecessary skin contact during handling

Specification

COMPOSITION	A natural crystalline aluminosilicate mineral with approximated empirical formula: $(Ca, Fe, K, Mg, Na)_3 \cdot 6Si_{30}Al_6O_{72} \cdot 24H_2O$. Matrixed with mineral Zinc. Typical mineralogical composition: 92% Clinoptilolite, 5%, Zinc, 3% feldspar, 1 % cristobalite.
APPEARANCE	Buff to pale pink powdered solid
ODOUR	Earth-like

Storage & Shelf life

- Store in cool dry conditions away from direct sunlight
- Keep in original container
- Keep containers sealed when not in use
- Storage temperature should be stored at ambient minimum 0°C , and maximum 50°C
- The shelf life at the recommended storage temperature is 2 years from the date of manufacture

Technical Support

For Health and Safety information on this product please refer the safety data sheet (SDS).

For support and advice on the use of this product please contact either Frances Maud or Paul Taylor by the following methods:

Frances Maud	frances.maud@murphyandson.co.uk	+44 (0)115 978 5494
Paul Taylor	paul.taylor@murphyandson.co.uk	+44 (0)115 978 2728

Reference

PRODUCT	Zetolite 65	PRODUCT CODE	ZET65
ISSUE No.	2.0	DATE	11/01/2016
WRITTEN BY	Frances Maud	AUTHORISED BY	Christine Fleming