



- ◇ Consistent Fermentations
- ◇ Higher Attenuation
- ◇ Improve Filtration
- ◇ Maintain Yeast Population Viability
- ◇ Virtually No Dust, Easy-To-Use, Tablet Form



### **WHY USE YEAST NUTRIENTS?**

Brewers know the importance of healthy yeast populations with serial repitching of yeast. Research shows that regular yeast nutrient supplementation helps to maintain a strong, viable and healthy yeast population. Sufficient nutrients ensure dependable fermentations and increased fermentation rates, higher attenuation, faster reduction of diacetyl, fewer off flavors and more consistency from brew to brew. A complex nutrient supplement provides yeast with the essential micro-nutrients, polypeptides, and amino acids to ensure good cell growth generation after generation. Pitching with healthy, viable yeast populations leads to less stressful conditions and assures consistency and efficiency in brewing.

### **WHAT IS MICROELEMENTS?**

MicroElements Brewing Nutrients – Tablets contain a diverse blend of vitamins, minerals, polypeptides, and amino acids that have been identified as essential precursors required to build yeast biomass. Gusmer Enterprises has been formulating fermentation nutrients for many years and has developed MicroElements Brewing Nutrients based on the latest fermentation research and with the highest quality, bioavailable ingredients for maximum assimilation by the yeast. It consists of 100% organic nitrogen. These essential ingredients are then compressed into a tablet form that is designed to treat 10 barrels per single tablet that fully dissolve in 15 minutes or less. In keeping with good sanitation practices, the easy to use tablet form allows for accurate dosing and virtually no dust, thus eliminating the risk for air born contamination in the brewery. All ingredients in MicroElements Brewing Nutrients – Tablets comply fully with the *Adjunct Reference Manual* published by the Beer Institute and adhere to the TTB standards. The product is non-GMO, non-BSE certified and formulated in the USA.

### **APPLICATION**

MicroElements Brewing Nutrients – Tablets are designed for use at the kettle or fermentation vessel in all types of brewing, especially high gravity brewing, or in yeast propagation regimes. It's a complete fermentation nutrient supplement.



## INSTRUCTIONS FOR USE

MicroElements Brewing Nutrients - Tablets can be added to the kettle during the last 15 minutes of boiling or directly to the wort. The tablets can also be used in yeast propagation; dose is predicated on total volume used for yeast propagation (wort plus pitching starter culture volume). One tablet is predetermined to treat 10 barrels.

## TECHNICAL DATA

### Addition Level

- ◊ Recommended dosage is 1 tablet (~33g) / 10 bbls
- ◊ Round up when dosing, i.e. a 23 bbl batch would use 3 tablets.
- ◊ *NOTE: do not break tablets*
- ◊ When used as recommended, MicroElements Brewing Nutrients will provide at least 30 ppb of Zinc.

### Storage and Shelf Life

- ◊ Store under cool and dry conditions
- ◊ Shelf life is 24 months unopened and 6 months opened but sealed package.

### Appearance

- ◊ Tan colored tablets with yeast-like aroma

## PACKAGING

- ◊ 1 kg pack
  - ▶ Contains approximately 29 tablets
  - ▶ Will treat approximately 290 bbls
- ◊ 5 kg pack
  - ▶ Contains approximately 147 tablets
  - ▶ Will treat approximately 1470 bbls

## PRODUCT SPECIFICATIONS

Microbiological	Specifications
Total Bacteria Count	<15,000 / g
Yeast and Mold	<100 / g
Coliform Organisms	<10 / g
<i>E. coli</i>	Negative
Salmonella	Negative

**Important Note:** Gusmer Enterprises, Inc. provides this information to the best of our knowledge. This information does not claim to be complete and Gusmer Enterprises, Inc. cannot assume liability for improper use. All users are advised to test products to meet their specific needs.



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