



## FE- enhancer G <sup>TM</sup>

*(An ultimate grain fermentation solution)*

**FE- enhancer G** is a customised and unique blend of enzyme, antimicrobials & yeast food, which is exclusively designed for grain based alcohol industry to increase the process efficiency.

**FE- enhancer G** is formulated on 3B concept keeping in mind of all pain areas of grain processing fermentation. The 3Bs are Bio- nutrition, Bio-zymes & Bio-cides. The benefits of 3B blends are as follow:-

### **Bio- Nutrition** (A blend of yeast food and yeast extract)

- ▶ It makes yeast cell healthy and viable.
- ▶ Enhances the cell count in pre fermenter.
- ▶ Increase viable cell count
- ▶ Enhances metabolic activity of yeast which helps in increasing the rate of sugar consumption during fermentation.

### **Bio- zymes** (A blend of concentrated enzymes)

- ▶ It is a blend of high activity enzyme like pullulanase, xylanase, cellulase, beta glucanase, protease and many more.
- ▶ The enzymatic activity helps in converting the complex sugar to simpler sugar like pentose, glucans, dextrin and others wide variety of oligosaccharides.
- ▶ It helps in liberating the FAAN content which helps in enhancing the yeast activity.
- ▶ It works on protein-bonded starch

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### **Bio-cides (A blend of antimicrobials & antibiotics)**

- ▶ The formulated blend controls COD & BOD during fermentation
- ▶ It hydrolyses the cell wall of lactobacillus & aceto-bactor bacteria.
- ▶ It helps in reducing VFA level drastically.
- ▶ It works well in case of heavy recycling

### **Benefits of FE- enhancer G:-**

- ▶ Effectively reduces VFA level in process
- ▶ Enhances process efficiency by increasing viable cell count
- ▶ Helps in reducing the fermentation cycle
- ▶ Effectively reduces residual sugar at the end of fermentation
- ▶ Helps in gaining higher yield to increase the final alcohol concentration
- ▶ It also removes di-acetyl odour

### **Dosing:-**

- ▶ 3-5 ppm /Lakh of wash or 15-30 gm/ton of starch

### **Operating parameter:-**

- ▶ Temperature :- 30-50oc
- ▶ pH:- 3.5-6

### **Characteristic:-**

- ▶ Occurrence :- Powder
- ▶ Appearance:- Yellowish white

**Packaging:** - 1 x 30 = 30 kg HDPE drums

**Storage:** – Store in a cool and dry place

**Shelf life:** – 24 months from the date of manufacturing.

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