

MAXIFERM

(see Enzymes CBS, Why and when to use enzymes)

MAXIFERM is an amylolytic preparation which catalyzes on one hand the hydrolysis of the alpha-1,6 linkages of amylopectine and on the other hand the hydrolysis of the alpha-1,4 linkages of both amylose and amylopectine by releasing maltose units.

PURPOSES

To increase the fermentability of wort (apparent attenuation limit) by hydrolysing the alpha-limit-dextrines into maltose units by the combined action of a limit dextrinase and a maltogenic amylase (see TABLE 1).

TEMPERATURE

Optimum 55-60°C. Both enzymatic components are deactivated in beer during fermentation and pasteurization process (see TABLE 2).

pH EFFECT

Optimum pH between 5,0 and 6,0.

RATES

1 to 5 liters of MAXIFERM for 1 ton of raw material.

APPLICATION

- MAXIFERM may be added in the beginning of the mash.
- MAXIFERM may also be added in the fermenter.

ACTIVITY

2000 PU/g and 2000 MU/g.

AVAILABILITY

Liquid form in polypropylene drums of 30 kg.

SAFETY

MAXIFERM is produced according to FAO/WHO JECFA and FCC recommendations for food grade enzymes, supplemented with maximum limits of 5×10^4 /g for total count and 10^2 /g for moulds.

STORAGE

The declared activity of MAXIFERM is maintained for at least six months when stored at 25°C and for at least one year when stored at 5°C.

Our technical advice on the uses of our materials is given without obligation. The buyer is responsible for the application and processing of our products, and he is also liable for observing any third party rights.

TABLE 1

Decrease of malt quantity used to produce a 4.5% v/v alcohol beer by addition of MAXIFERM in the fermentor.

	All Malt Mash	All Malt Mash with MAXIFERM 0.1% w/w malt
Alcohol per cent	4.5% v/v	4.5% v/v
Original gravity °Plato	11	8
Malt involved in kg/Hl	14.50	10.50

TABLE 2

Residual enzyme activity in beer after pasteurization

Enzyme Type	Residual enzyme activity %		Pasteurization Half-life of enzyme at 60°C
	After 7 days (end of fermentation)	After 30 days (end of maturation)	
Amyloglucosidase	100	100	60 min
Maxiferm	40	Nil	1 min

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