



Product Information

Antiox C

Description

ANTIOX C provides dual protection for beer. Immediately acting, the potassium metabisulfite component of the antioxidant immediately combines with dissolved oxygen as soon as it is added after fermentation. The ascorbate component of the antioxidant reacts with oxygen at a slower rate than does metabisulfite. When the metabisulfite is totally reacted, the slower acting ascorbate continues protection against oxidation. Protection against dissolved and head space oxygen continues during the complete brewing and packaging operations. Resulting packaged beers possess improved flavor stability, colloidal stability, and prolonged shelf-life. ANTIOX C treated beers retain their fresh taste, palatability, and brilliance.

Properties

Form	Crystalline powder
Color	White
Solubility	Completely soluble in water

Suggested Procedures

Preparing the Antioxidant Solution

ANTIOX C is completely and immediately soluble with effervescence. For best results, dissolve one part of antioxidant in ten parts of potable water with mild, continuous agitation. Avoid exposing the antioxidant solution to air pickup during preparation of the solution. Note: sulfur dioxide fumes are evolved during mixing, ensure adequate ventilation.

Use Level

The exact use level of ANTIOX C will vary according to oxidation conditions during processing and packaging. Every effort should be made to minimize the exposure of the beer to air and trace metals during processing and packaging. Our Technical Service Representatives are available to consult with the brewery to accomplish this goal.

To optimize the use of ANTIOX C, we recommend trials prior to the routine use of the antioxidant. This assures optimum protection and uniform beer quality. ANTIOX C is normally added at 20-30 ppm (0.50 to 0.75 lb./100 bbl.; 2-3g/hl) of beer. Maximum addition depends upon application but should not generally exceed 100ppm

To judge the effectiveness of ANTIOX C, the flavor and physical stability of treated beer should be compared with that of an untreated beer control over an extended shelf storage period.

Antioxidant Use

For complete protection, proportion the antioxidant solution into the beer line during transfer from fermentation to storage. Proportioning to solution under carbon dioxide pressure avoids oxygen pickup. If proportioning equipment is not available, force the antioxidant solution with carbon dioxide or introduce it by suction into the beer line after transferring 50 to 100 barrels to storage. Do not add the ANTIOX C solution to an empty storage tank. The initial flow of beer may be accompanied by a significant amount of air which can immediately react with and use up the antioxidant. In beers of low air content it may cause a "reduced" flavor.

Approval For Use In Brewing

The ingredients contained in ANTIOX C are approved for use in brewing and are listed in the United States Brewers Association, Inc., publication, "Adjunct Reference Manual."

Packaging & Storage

Store in a tightly sealed container under cool, dry conditions. Storage life can be extended by minimizing exposure to high humidity and temperature.

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