Analysis of discoloration of quick-frozen fruits and vegetables

Detail Introduction:

The discoloration of quick-frozen fruits and vegetables can occur in the quick-frozen processing stage as in the frozen storage stage and circulation stage. It is mainly because of the action of microorganisms the growth and reproduction of microorganisms must have a suitable temperature range. Above or temperature will cause the life activities of microorganisms to be inhibited, stopped or even cause de Quick-frozen fruits and vegetables use artificial refrigeration technology to reduce the temperature of fruits and vegetables, which can greatly inhibit the activity of microorganisms and enzymes, and can spoilage to a large extent.



Quick-frozen fruits and vegetables generally have changes in color, flavor, nutrition, etc. Before freez quick-frozen fruits and vegetables will take measures to inhibit or inactivate enzyme activity to reduc quality changes caused by the presence of enzymes.

Fruits and vegetables contain polyphenol oxidase, these enzymes oxidize phenol into red and black compounds under the action of oxygen, chlorophyllase oxidatively decomposes chlorophyll. In additionable there are acidic substances in the processing water, it will also cause the product to lose its green collaboration, it can also catalyze the browning of the product, and the leakage of the refrigerant cause discoloration.