



Mayzo Makes It Possible

## BNX<sup>®</sup> 1225

### Synergistic Antioxidant Blend

#### Overview

BNX<sup>®</sup> 1225 is a synergistic blend of the primary antioxidant BNX<sup>®</sup> 1010 and the phosphite secondary antioxidant BENEFOS<sup>®</sup> 1680 in a 1:1 ratio. This blend provides protection against thermal oxidative degradation over a broad temperature range in plastics, elastomers, adhesives, coatings, lubricants, and other substrates.

#### Advantages

- Provides protection during high temperature processing and long term heat aging
- Synergistic performance with thioether secondary antioxidants
- Ease and convenience for compounding operations
- Extensive FDA clearances

#### Chemistry

Composition: 50% BNX<sup>®</sup> 1010 (CAS No. 6683-19-8)  
50% BENEFOS<sup>®</sup> 1680 (CAS No. 31570-04-4)

#### Typical Properties

Product Form: Solid

#### Solubility

Refer to the BNX<sup>®</sup> 1010 and BENEFOS<sup>®</sup> 1680 product data sheets for solubility information.

#### Applications

BNX<sup>®</sup> 1225 is a convenient blend of both a primary and secondary antioxidant. This synergistic blend addresses a broad range of stabilization needs. It is ideal for use as a melt processing stabilizer in polyolefins, including polypropylene, polyethylene, olefin copolymers, and TPO. This product is also useful as an antioxidant and processing stabilizer for adhesives, elastomers, powder coatings, polyurethanes, styrenic polymers, and engineering plastics.

#### Guidelines for Use

Suggested use levels range from 0.05% to 1%. Combinations with thioether secondary antioxidants often show synergistic performance on long-term heat aging. BNX<sup>®</sup> 1225 is also suitable for use in combination with light stabilizers, including hindered amine light stabilizers (HALS), UV absorbers, and benzoates. The exact formulation to be used is dependent on the substrate, performance requirements, and other factors, and should be determined by the user based on testing to simulate actual conditions of use. Please contact your Mayzo representative for specific recommendations for your application.

### **Storage**

This product may be stored up to two years in a sealed container. Containers should be kept tightly closed when not in use and stored in a cool, dry place.

### **Safety**

Please consult the Safety Data Sheet (SDS) prior to handling or using this product.

### **FDA Regulations**

The components of BNX<sup>®</sup> 1225 have extensive clearances for use in food contact applications under FDA regulations. Please contact your Mayzo representative for complete details, including restrictions of use.

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