

SUNOX[®]168 Antioxidant

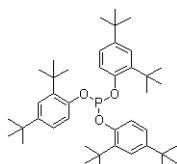
INTRODUCTION

CAS Number: 31570-04-4

Chemical Name:

Tris(2,4-ditert-butylphenyl) phosphite

Structure:



SUNOX[®]168 is a secondary high performance phosphite antioxidant for organic polymers. Exhibits reduction in polymer degradation during processing. Provides improved gas fading performance in many applications. Imparts higher phosphorous content than competitive phosphite antioxidants.

PERFORMANCE BENEFITS

SUNOX[®]168 is characterized by:

- Higher phosphorous content
- Low color and volatility
- Extraction resistant
- Sanctioned for use in polyolefin's by FDA

SUGGESTED APPLICATIONS

- Applications include polyolefins, polycarbonate, polyester, and styrenics
- Can be used in combination with hindered phenol, such as SUNOX[®]1010, SUNOX[®]1076 to achieve synergistic performance
- Can be used with benzotriazoles and HALS for thermal and light stabilization in outdoor use
- The amount to be used maybe 0.1%–0.5%.

TYPICAL PROPERTIES

TYPICAL PROPERTIES	VALUE
Appearance	White powder
Content	99%
Molecular weight	647 g/mol
Melting Point	183-186°C
Volatile Content	≤ 0.3%
Transmittance:	425nm ≥ 98%, 500nm ≥ 98%
TGA(10%)	300°C

HEALTH AND SAFETY

Direct contact with this material may cause eye and skin mechanical irritation. Avoid creating dust. May be harmful to aquatic plant or animal life, especially if a large quantity is released.

Refer to the Material Safety Data Sheet (MSDS) for safety, health and environment information.

STORAGE AND HANDLING

Avoid dust formation. Take precautionary measures against static discharges. Use only in well ventilated areas, Avoid prolonged or repeated contact with skin.

Keep container tightly closed and dry; store in a cool place. Avoid all sources of ignition: heat, sparks, open flame. Prevent contamination and since contact with moisture will slowly degrade the product.

Shipping Container:

25kg carton box (inner with plastic bag) or according to customer's request.