



GlobalVillage Sourcing, P. O. Box 600, Round Rock, TX 78680-0699

TECHNICAL DATA SHEET

GLOBAL SOL™ AOX 3

HYDROLYSIS STABLE PHOSPHITE ANTIOXIDANT FOR PLASTICS

Revision: 6/25/09

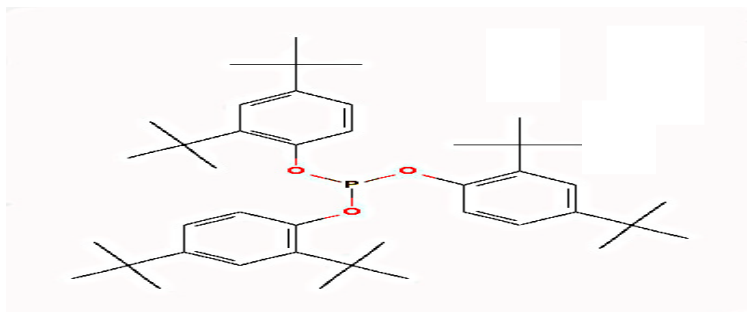
Characterization

GLOBAL SOL™ AOX 3 is a phosphite secondary antioxidant for polymers.

Chemical Name TRIS(2,4-DI-TERT-BUTYLPHENYL)PHOSPHITE

CAS Number 31570-04-4

Structure:



Molecular weight 646.9

Features

Global Sol™ AOX 3 is an organic phosphite of low volatility and particularly resistant to hydrolysis. It is used to protect polymers from thermal oxidation during processing. To achieve optimal performance Global Sol™ AOX 3 is used synergistically in combination with other Global Sol™ series primary antioxidants (hindered phenols and/or thioethers).



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Globasol™ AOX 3 provides significant advantages such as:

- Maintenance of original melt flow.
- Low volatility
- Low color formation
- High thermal stability.
- High resistance to gas fading caused by nitrogen oxides.

Product Forms Free flowing white granules or powder.

MELTING POINT	184-186°C
VOLATILE MATTER	0.3% MAX.
2,4-DTBP CONTENT	0.3% MAX
COLOR OF SOLUTION	425nm 97% MIN
TRANSMITTANCE	500nm 98% MIN
ACID VALUE mg KOH/g	0.5% MAX
ASSAY	99% MIN
HYDROLYSIS TIME	20 HOUR MIN

Applications

Globasol™ AOX 3 is mainly used in polyolefins and olefin copolymers such as polyethylene, polypropylene, and polybutene copolymers. Its function is to decompose hydroperoxides. The blends (with Globasol™ series primary antioxidants) can also be used in other polymers such as engineering plastics, styrene homo- and copolymers, elastomers, adhesives and others.

Guidelines for Use

In polyolefins and copolymers, the concentration levels for Globasol™ AOX 3 range typically between 0.1% and 0.50% depending on substrate, processing conditions and required service life. The optimum level is application specific.

Handling & Safety

Globasol™ AOX 3 requires no special safety measures provided the usual precautions for handling chemicals and dusty solids are observed. Avoid dust formation and ignition sources. For more detailed



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information please refer to the material safety date sheet.