

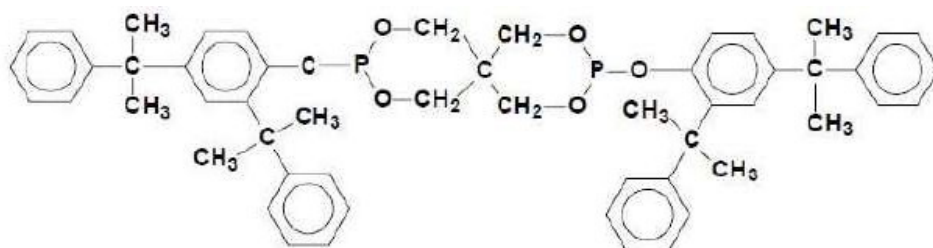


DOVERPHOS S-9228T

Solid Phosphite Antioxidant

Doverphos S-9228T is **Doverphos S-9228** with 1% triisopropanol amine.

Doverphos S-9228T is a free flowing solid phosphite antioxidant. This product has outstanding hydrolytic stability and outstanding performance in stabilizing polymers against melt flow degradation and color change.



**Bis (2,4-dicumylphenyl) pentaerythritol diphosphite
plus 1% triisopropanol amine
U.S. Patent Nos. 5,364,895 & 5,438,086**

Key Benefits

- **Doverphos S-9228T** does not hydrolyze upon exposure to moisture in the environment. Phosphite does not have to be thrown away if packaging is accidentally left open.
- Since **Doverphos S-9228T** is hydrolysis resistant, special packaging is not required, which may be difficult to dispose.
- **Doverphos S-9228T** in polymer systems has improved permanence where other phosphites may lose activity even when encapsulated in the polymer or in one-pack blends.
- **Doverphos S-9228T** does not hydrolyze and cause black specks as do other phosphites. These black specks, which cause visual defects in polymer, can plug filter packs in extrusion systems.
- Acid degradation products resulting from hydrolysis of the phosphite can react with other additives in the polymer, reducing their effectiveness.

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Better Feed with Doverphos S-9228T

Figure 1 shows a comparison of commonly used phosphites when exposed in accelerated hydrolysis conditions of 40°C and 5% relative humidity. **Doverphos S-9228T** remains free flowing and at full activity through the length of the test, while the other phosphites turn sticky and lose effectiveness in less than 50 hours of testing. This is critical as feeding additives which turn sticky will present problems in production.

Figure 1

Phosphite	Hours to Failure	Consistency at End	% Original Phosphite at End
Doverphos S-9228T	1700+	Free Flowing	98
Competitor A	43	Mushy	25
Competitor B	48	Sticky	60

Typical Properties

Property	Typical Result
Volatile Matter, %	0.5 max
2,4 DCP, %	0.5 max
Appearance	White Powder
Melt Point, °C	225 min
TIPA, %	1 max
Acid Number, mgKOH/g	1.0 max



Certified to NSF/ANSI 51

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