



YFK-3114

Chemical Structure

Chemical Name	1,3,5-tris-(3,5-di-tert-butyl-4-hydroxybenzyl)-s-triazine-2-one	
Chemical Formula	C ₄₈ H ₆₉ O ₆ N ₃	
Cas No.	27676-62-6	
Molecular Weight	784.1	

Specifications

Appearance	White powder
Melting Range (°C)	218.0 ~ 225.5
Volatile Loss %	<= 0.30
Ash Content %	<= 0.05
Transmittance %, 425nm	>= 95.0
Transmittance %, 500nm	>= 97.0
Solubility	Clear
Content %	>= 98.0

Usage Notes

Properties

It is a multielement hindered phenol antioxidant supplied as a white crystalline powder. It exhibits solubility in benzene, chloroform, and various other organic solvents, limited solubility in ethanol, and is insoluble in water. The material demonstrates low volatility, excellent compatibility with a wide range of polymers, and strong resistance to hot water and detergent extraction. It provides superior thermal stability and outstanding resistance to thermal and oxidative aging. The antioxidant maintains color stability, generates no odor or taste, and does not contribute to contamination. YFK-3114 is classified as non-toxic and highly efficient.



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Performance

It is a wide-ranging plastic additive known for its high efficiency, low toxicity, lack of pollution, and invariable color. This additive can be incorporated into plastics, rubber, and other polymeric materials to protect them against damage caused by thermal oxidation. As the most outstanding representative of hindered phenol antioxidants, it has been widely applied in the polyolefin and plastic processing industry in China.

Applications

It is a high-quality antioxidant synthesized from various natural agents. It can be applied in PE, PP, ABS resin, polyurethane, PBT resin, PVC, polyester, polyformaldehyde, polyamide, diverse types of synthetic rubber, and other polymer materials.

Storage

This product is stable under normal conditions and does not have any special storage requirements. However, it should be protected from moisture and heat.

Recommended Dosage

The typical dosage range is 0.05% to 0.20%.

Packaging

The product is packaged in cardboard boxes lined with plastic bags. The net weight per box is 25 kg.
