



ANTIOXIDANT YFK-168

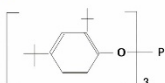


Chemical Name: Tris- (2,4-di-tert-butyl-phenyl) -phosphite

Molecular weight: 646

Molecular formula: C₄₂H₆₃O₃P

Structure:



Specification:

Items	Unit	Requirements
Appearance	/	White crystalline powder
Melting Range	°C	183-187
Solubility (2g/20ml, Toluene)	/	Clear solution
Transmittance	425nm	≥98
	500nm	≥98
Volatilizing	%	≤0.3
Acid value	mgKOH/g	≤0.3
Assay	%	≥99
free 2,4-di-tert.-butyl-phenyl	%	≤0.2
Anti-hydrolyze(90°C, water, 14h)	/	Qualified



Properties: The product takes on an appearance of white powder, without odor and smell. It is Soluble in benzene, chloroform, sparingly soluble in alcohol, acetone, and insoluble in water. It has low toxicity, good thermal stability. It can effectively decompose the hydroperoxides which are produced during process.



Features/Benefits: YFK-168 is an organophosphate of low volatility and is particularly resistant to hydrolysis. It protects polymers which are prone to oxidant, during the processing steps(compounding/ pelletzing, fabrication and recycling) from molecular weight change(e.g. chain scission/ crosslinking) and prevents discoloration. YFK-168 comprised in phenol free systems with other appropriate stabilizers addresses specific stabilization requirements.



Applications: The application range of YFK-168-synergistically combined with other antioxidants- comprises polyolefins and olefin- copolymers such as polyethylene (e.g. HDPE, LLDPE), Polypropylene, polybutene and ethylene- vinylacetate copolymers as well as polycarbonates and polyamides. The blends can also be used in polyesters, styrene homo- and copolymers, adhesives and natural and synthetic tackifier resins, elastomers such as BR, SEBS, SBS and other organic substrates. YFK- 168 blends can be used in combination with light stabilizers.

The amount to be used may be 0.1%-0.3%.



Package and Storage: Net 25kg/bag or carton, or 500kg jumbo bag, or customized package. Store in a cool area designed for the storage of chemicals.



Period of Validity: Normally 24 months