

# DIAMOND ADDITIVE

## Plastic Additives Supplier

### PRODUCT DATA SHEET

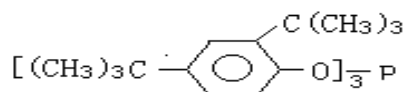
#### AO-168 (powder)

**Chemical Name:** Tris-(2,4-di-t-butylphenyl) phosphate

**Molecular Weight:** M=646

**Molecular Formula :** C<sub>42</sub>H<sub>63</sub>O<sub>3</sub>P

**Chemical Structure Formula:**



#### Physical Properties:

Item		Standard
Appearance		White powder
Melting range (°C)		183~186
Volatile (%)		≤ 0.5
Solubility (2g/20ml, Toluene)		Limpidity
Light Transmittance	425nm,%	≥ 98
	500nm,%	≥ 98
Acid Number (mgKOH/g)		≤ 0.3
Anti-hydrolyze (90°C, water, 14h)		Qualified
Ash(%)		≤ 0.1
Purity (%)		≥ 99

**Features:** Easily soluble in organic solvents such as benzene, chloroform and so on ; slightly soluble in esters, but insoluble in polar solvents, such as water, alcohols and so on. Low toxicity, good thermostability, non-hydrolyzable, etc. The peculiarity of the product (is that it) can all be retrieved if soaking in the hot water at 90±1°C within 14 hours and its quality will not be affected.

#### Applications:

AO-168 is a secondary antioxidant with excellent resistance to extraction by water, low volatility and high heat stability. It can effectively decompose hydroperoxides produced during the processing of polymeric materials.