ADDITIVES EXPERT
Zhiyi Specialty Chemicals Co., Ltd.

Yinox® 446
Technical Data Sheet

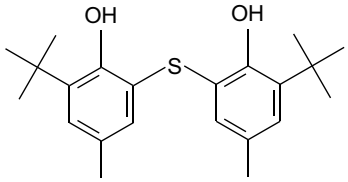
Introduction

2, 2-thiobis(6-t-butyl-4-methylphenol)

$C_{22}H_{30}O_2S$

Molecular weight : 358

CAS : 90-66-4



Properties

Appearance	White powder
Assay, %	≥98.5
Melting point, °C	83-85
Ash, %	≤0.05
Volatility, %	≤0.5

Solubility(g/100g solvent)@25°C

Water	<0.01	Methanol	35	Acetone	>50

TGA(°C, % mass loss)

Weight Loss, %	5	10	50
Temperature, °C	186	199	236

Benefits

The outstanding compatibility of Yinox® 446 provides an exudation free antioxidant and heat stabilizer. Yinox® 446 offers unmatched processing and thermal stabilization in cross-linked polyethylene wire and cable systems.

Applications

Yinox® 446 is used as an antioxidant in HDPE and LDPE for high voltage cables. It has high resistance to thermo-oxidative degradation and wash-out, exhibits excellent compatibility with peroxides and exhibits great synergism with carbon-black. It can be used as a polymerization and processing stabilizer for PP, ABS, PVC, EPDM elastomers and polybutadienes. It is effective as an anti-skinning agent for hot melt adhesives, an anti-scorching agent for polyurethanes during condensation of TDI on polyesters, and a heat stabilizer for lubricants.