

Antioxidant 168 Product Instructions

Product Description:

Chemical name: 三 (2,4-二叔丁基苯基) 亚磷酸酯

English name: Tris-(2,4-di-tert-butylphenyl)-phosphite

Molecular formula: $C_{42}H_{63}O_3P$

Molecular weight: 646.92

CAS No.: 31570-04-4

Quality Standard :

Inspecting item		Unit	Metric
Surface		-----	White powder or granules
Fugitive constituent ,		%	≤ 0.30
Melting range		℃	183.0-187.0
Content of 2,4-di-tert-butylphenol		%	≤ 0.20
Acidity (in KOH)		mg/g	≤ 0.30
Light transmittance	425nm	%	≥ 98.0
	500nm	%	≥ 98.0
Water resistance			Qualified
Main Content		%	≥ 99.0
Solubility		-----	Limpid

Product Property:

This product appears as white granules or powder with a melting point of 183℃-187℃. It is a phosphite-based auxiliary antioxidant characterized by high hydrolysis resistance and excellent processing stability. It exhibits stable properties, is colorless, non-contaminating, and highly resistant to volatilization.

Product use :

QINGDAO GON PLASTICS CO., LTD



This product prevents polymer degradation caused by hydroperoxides during processing. It interacts with hydroperoxides to inhibit free radical generation, hence its designation as a hydroperoxide scavenger. It exhibits excellent synergistic effects with major phenolic antioxidants such as 1010 and 1076, and is used in polyolefins or olefin copolymers including HDPE, LLDE, PP, EVA, PC, and PA. It is also applied to engineering materials such as polyamides, polyesters, ABS resins, and rubbers. Additionally, it protects polymers from molecular weight changes (e.g., PP chain scission, PE cross-linking) and color alterations induced by oxidation during processes like mixing, pelletizing, and extrusion.

Product packaging:

Antioxidant 168 is packaged in kraft paper bags with a specification of 25 kg per bag, or can be packaged according to customer requirements.

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