PRODUCT DATA SHEET

TULOSTAB DSTDP

Tulostab DSTDP (Distearyl Thiodipropionate) is an organosulfur compound primarily used as an antioxidant and stabilizer in various materials. It's known for its ability to prevent oxidative degradation, enhancing the longevity and performance of products like plastics, rubber, and coatings.

Product Name : Tulostab DSTDP (Distearyl Thiodipropionate)

CAS No : 693-36-7

Molecular Formula : $C_{42}H_{82}O_4S$

Test No.	Test Parameter	Specification
1	Appearance	White crystalline powder
2	Color	APHA NMT 50
3	Solubility	Soluble in toluene
4	Identification by IR/NMR	Complies to the standard
5	Transmittance @425 nm	NLT - 98%
	Transmittance @500 nm	NLT - 97%
6	Melting point (°C)	63 - 68.5
7	Sulfated ash	NMT 0.1%
8	Acid number	NMT 0.1 mg KOH/g

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Applications:

- Tulostab DSTDP is a thioester antioxidant used in polymer to enhance their stability; It’s a secondary antioxidant for polyolefins like PE, PP, Synthetic rubber, ABS, HIPS, Polyester and Polyamide.
- Tulostab DSTDP has a synergistic effect when used together with the primary antioxidant 1010, 168, 1076 etc.
- Tulostab DSTDP is frequently incorporated into XLPE insulation, which is used in medium and high-voltage power cables as a heat stabilizer.
- In Halogen-Free Flame Retardant (HFFR) cables, DSTDP provides essential thermal stability without compromising the cable's flame-retardant properties.
- In high-voltage DC cables, DSTDP is found within the semiconductive shield layers. It contributes to the overall thermal stability of the cable system.

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Storage & Stability:

DSTDP (Distearyl Thiodipropionate) should be stored in a cool, dry, and well-ventilated place, away from direct sunlight and heat sources. It's crucial to keep containers sealed when not in use to prevent moisture absorption and potential hydrolysis, especially in humid conditions.

Contact

For feedback or further information, please feel free to contact us at info@tulonmaterials.com.

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