

Additives for Polymers

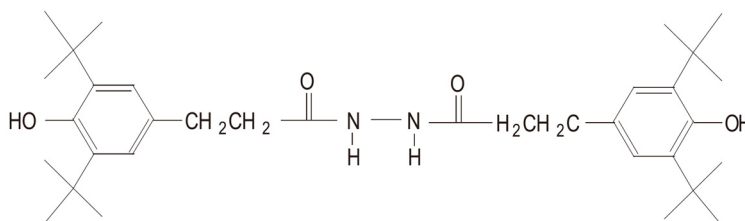
METAL DEACTIVATOR

1. General

Metal ions catalyze the decomposition of peroxides, forming reactive radicals which cause polymer degradation. Deox MD-1024 is an efficient metal deactivator which forms stable complexes with metals, particularly with copper ions. Thus, the stability of polymer in contact with copper is largely improved by the use of Deox MD-1024.

2. Properties

Structure :



Chemical name : 2',3-bis[[3-[3,5-di-tert-butyl-4-hydroxyphenyl]propionyl]]propio
CAS No. : 32687-78-8
Molecular formula : C₃₄H₅₂N₂O₄
Molecular weight : 552.8

3. Physical Data

Appearance : White powder
Odor : Odorless
Boiling point : N/A
Melting point : 227-229 °C
Bulk density : 0.35g/mL (2.92 lb/Gal)

4. Solubility

(g in 100 ml solvent)

Methyl alcohol : 4
Toluene : 0.1
Acetone : 4
Water : < 0.01

5. Specification

Appearance : White to off-white crystalline powder
Assay : 99% min.
Melting point : 221 - 232 °C
Volatiles : 0.5% max.
Clarity of solution : Clear
Transmittance : 96% min. @425 nm
97% min. @500 nm

7. Application

Deox MD-1024 is recommended for evaluation in the following applications:

- ☐ Polyethylene wire and cable resin
- ☐ Plastic fabricated part used in contact with copper
- ☐ NBR fuel hoses
- ☐ SBR
- ☐ Styrene homo- and copolymers

9. Packaging

20 Kg net/ Carton