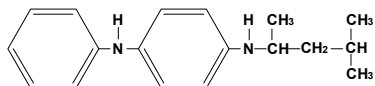




KUMANOX 13

Formular



Chemical Name	N-(1,3-Dimethylbutyl)-N'-phenyl -p-phenylenediamine
Molecular Weight	268
CAS NO.	793-24-8

Product Properties

Class	p-Phenylene diamines
Appearance	brownish pastille dark brownish liquid
Melting point, final (°C)	46.0 ~ 52.0
Heat loss (%)	max. 0.5 at 70 °C , 2 hrs.
Ash (%)	max. 0.3
Staining	Severe

Characteristics and Applications

- Used for an outstanding antioxidant, antiozonant and stabilizer for natural and synthetic elastomer such as SBR, NBR, BR, IR and CR.
- Provides excellent antioxidant and antiozonant properties with protection against oxidation, ozone attack, heat aging, fatigue, flexcracking and metal poisons to rubber goods.
- Gives higher rubber solubility due to its good dispersion in rubber compounds.
- Main Use : tires, belts, hoses, cables, automotive mounts and goods for Industrial uses.
- The level of addition of KUMANOX(R) 13 is 1~4 phr for resistance to ozone, oxygen and flexcracking.
※ phr : typical levels of addition based on 100 parts by weight of elastomer.

Solubility

- Soluble in toluene, acetone, ethanol, methylene chloride, ethyl acetate
- Insoluble in water.

Storage

- Pastille :store in cool, dry, well ventilated conditions, and avoiding exposure of the packed product to direct sunlight. Double stacking of palletized material and/or exceeding 35 °C can result in unusual compaction of product.
- Liquid : Store under nitrogen condition to maximum 80 °C . (preferred 60~70 °C)

Packaging

Liquid	Bulk
Pastille	Paper bag (20kg, 25kg), FIBC big bag (500kg), Jumbo bag (1,000kg)

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