



SOVEREIGN CHEMICAL COMPANY

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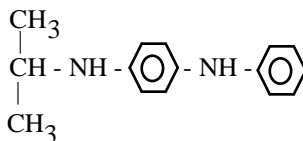
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DUSANTOX IPPD Pastille

Manufacturer: DUSLO, A.S.
Classification: Alkyl-aryl p-phenylenediamine antidegradant

Chemical Composition:

Chemical Structure:



Empirical Formula: $\text{C}_{15}\text{H}_{18}\text{N}_2$
Molecular Weight: 226.3
CA Nomenclature: N-isopropyl -N'-phenyl-p-phenylenediamine

Physical Data

Specification Properties	Value	Test Method
Active substance content	96.0% minimum	TN 54-015-03
Melting Point	76.0 – 81.0°C	STN 66-6301-7
Heat Loss at 70°C/3 hour	0.4% maximum	STN 66-6301-14
Acetone Insolubles	0.3% maximum	TN 54-015-03
Ash Content	0.1% maximum	STN 68-4071-22
Iron Content	0.008% maximum	TN 54-015-03
Typical Properties:		
Specific gravity at 20°C	1.090-1.105 gm/cm ³	Typical
Bulk density	490-580 kg/m ³	Typical
Physical Form	Purple-brown pastilles	Visual

Applications

Protection: An alkyl-aryl PPD that is a very effective antioxidant and antiozonant that provides medium to long term protection. It also provides protection against flex cracking, metal ion degradation and heat aging.

Polymers: All synthetic and natural rubbers.

Synergism: Synergistic with quinoline antioxidants and microcrystalline/paraffin waxes.

Staining: Severely staining and discoloring.

Cure Effect: Slightly activating on the cure.

Product Use: Especially suited for in products where outdoor weather resistance and heat resistance are needed. Recommended for tires, weather stripping, insulated wire/cables, hose, footwear, conveyor belts, O-rings, gaskets, seals, windshield wiper blades, motor mounts, automotive weather stripping, etc.

Recommended Dosage

As an Antioxidant use 0.5-2.5 phr

As an Anti-flex Agent use 1.0-3.5 phr

As an Antiozonant use 1.0-4.0 phr (without wax), 1.0-2.0 phr (with wax)

As a Metal Antidegradant use 0.5-5.0 phr

As a Polymer Stabilizer use 0.3-0.7 phr

FDA Regulations

Food contact surface component 21 CFR 177.2600(c)(4)

Packaging and Storage

Packaging: 25 kg (55.1 lb) 3-layer paper bags.

Shelf Life: 2 years from date of manufacture if stored as indicated below.

Storage: Unopened original packaging in a cool dry place. The product has excellent storage stability if stored below 35°C(95°F) and in unopened packages. Do not store in bulk above 75°C(167°F) for prolonged periods of time or in unopened containers to avoid oxidation and loss of activity. Keep partially used containers closed.

Specification Date: February 10, 2006 (Supersedes: October 11, 2001)