



## SOVEREIGN CHEMICAL COMPANY

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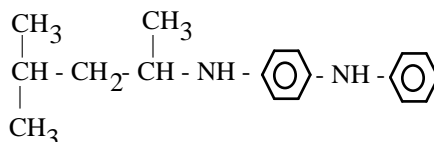
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# DUSANTOX 6PPD PASTILLE

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

**Chemical Composition:**

Chemical Structure:



Empirical Formula:  $\text{C}_{18}\text{H}_{24}\text{N}_2$   
Molecular Weight: 268.4  
CA Nomenclature: N-(1,3-dimethylbutyl) -N'-phenyl-p-phenylenediamine

### Physical Data

| Specification Properties  | Value                       | Test Method    |
|---------------------------|-----------------------------|----------------|
| Active Substance Content  | 97.0% minimum               | TN 54-054-03   |
| Melting Point             | 44.0-50.0°C                 | STN-66-6301-7  |
| Heat Loss @70°C           | 0.4% maximum                | STN-66-6301-14 |
| Ash Content               | 0.1% maximum                | STN-68-4071-22 |
| <b>Typical Properties</b> |                             |                |
| Bulk density              | 520-580 kg/m <sup>3</sup>   | Typical        |
| Physical Form             | Purple-brown pastilles      | Visual         |
| Specific gravity          | 1.03-1.06 g/cm <sup>3</sup> | Typical        |

### Applications

**Protection:** An alkyl-aryl PPD that is a very effective antioxidant and antiozonant that provides 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 Antioxidant** 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

### 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 away from foodstuffs, oxidants and acids. The product has excellent storage stability if stored below 35°C(95°F) and in unopened packages. Do not store in bulk above 65°C(150°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)