



## SOVEREIGN CHEMICAL COMPANY

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# Antiozonant Dox 1 Pastilles

**Manufacturer:**

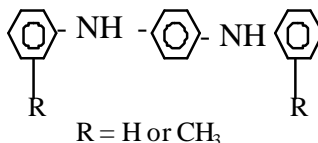
DJCHEM Chemicals Poland SA

**Classification:**

Diaryl-p-phenylene diamine antiozonant

**Chemical Composition**

Chemical Structure:



CA Nomenclature:

N'N-diaryl-paraphenylene diamine mixture

Chemical Synonyms:

Diaryl PPD, DTPD

### Physical Data

#### Specification Properties

Specification Properties	Value	Test Method
Melting Point, °C	88.0-105.0	ASTM D 1519
Heat loss, % at 60°C	0.5 maximum	ASTM D 4571
Ash content, % at 525°C	0.5 maximum	ASTM D 4574
Active content, %	85.0 minimum	DJCHEM-210/04
Iron Content, ppm	750 maximum	DJCHEM-214/04

#### Typical Properties

Physical Form	Steel brown pastilles	Visual
Specific Gravity	1.18	Typical
Initial Melt Point, °C	88.0-97.0	ASTM D 1519

### Application

**Uses:** Especially suited for products where outdoor weather resistance and heat resistance is 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.

**Protection:** Excellent dynamic antiozonant and a good antioxidant that provides very long-term protection. It also protects against bin cure in CR. It also provides excellent high temperature heat degradation resistance, good flex crack resistance and protects against copper degradation.

**Polymer:** NR, SBR, BR, CR.

**Synergism:** Dox 1 Pastilles are often used with the dialkyl and alkyl/aryl p-phenylene diamines to provide optimized short-term and long-term protection.

**Staining:** Dox 1 Pastilles are the lowest staining and the least discoloring of the p-phenylene diamine type.

**Cure Effect:** Very slightly activating on the cure but the least activating of the p-phenylene diamine type antiozonants.

**Recommended Dosage:** As an antioxidant 1.0 phr. As an antiozonant 3.0 phr. Synergistic blend 1.0 phr dialkyl or alkyl/aryl p-phenylene diamine with 0.25 phr DOX 1.

### Packaging and Storage

**Packaging:** 25 Kg (55.1 lb.) bags.

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

**Storage:** Store in original unopened packages in a cool dry environment.

Specification Date: July 13, 2011 (Supersedes: July 26, 2010)