

# Antiozonant Dox 1 Pastilles

Manufacturer:	DJCHEM Chemicals Poland SA
Classification:	Diaryl-p-phenylene diamine antiozonant
CA Nomenclature:	N'N-diaryl-paraphenylene diamine mixture
Chemical Synonyms:	Diaryl PPD, DTPD

Specification Properties	Value	Test Method
Active Content, %	85 minimum	DJCHEM-210/04
Ash Content @525°C, %	0.5 maximum	ASTM D4574
Heat Loss @60°C, %	0.5 maximum	ASTM D4571
Iron Content, ppm	750 maximum	DJCHEM-214/04
Melting Point, °C	88-105	ASTM D1519
Typical Properties	Value	Test Method
Physical Form	Steel brown pastilles	Visual
Specific Gravity	1.18	Typical

## > APPLICATIONS

**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 unopened original packages in a cool dry place.

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