

**SOVEREIGN CHEMICAL COMPANY**

1225 West Market St., Akron OH 44313

Phone: 330-869-0500, Fax: 330-869-0518

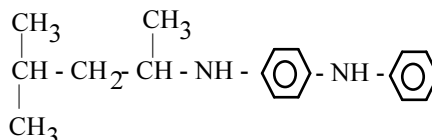
www.sovchem.net

Sunsine 6PPD Pastille

Manufacturer: Shandong Sunsine Chemical Co., Ltd.
Classification: Alkyl-aryl p-phenylenediamine antidegradant

Chemical Composition

Chemical Structure:



Empirical Formula: C₁₈H₂₄N₂
Molecular Weight: 268.4
CA Nomenclature: N-(1,3-dimethylbutyl) -N'-phenyl-p-phenylenediamine

Physical Data

	Value		Test Method
	Pastille	Liquid	
Specification Properties			
Melt Point (Initial), °C	44.0 Minimum		ASTM D1519-95
Melt Point (Final), °C	51.0 Maximum		ASTM D1519-95
Assay (Purity) GC %	96.0 Minimum	96.0 Minimum	ASTM D4937-96
Heat loss, %	0.5 Maximum	0.5 Maximum	ASTM D4571-94
Ash, %	0.10 Maximum	0.15 Maximum	ASTM D1506-99
Typical Properties			
Physical Form	Purple-brown pastilles	Purple-brown liquid	Visual
Crystallization, °C	45.0 Minimum	45.0 Minimum	Typical
Specific gravity, @20°C	1.00	1.00	Typical

Applications

Protection: An alkyl-aryl PPD that is a very effective antioxidant and antiozonant that provides long term 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 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: 0.5-2.5 phr, as an Anti-flex Agent: 1.0-3.5 phr, as an Antiozonant: 1.0-4.0 phr (without wax) 1.0-2.0 phr (with wax), as a Metal Antidegradant: 0.5-5.0 phr, as a Polymer Stabilizer: 0.3-0.7 phr

Packaging and Storage

Packaging: 25 kg (55.1 lb) bag or Iso-tank

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

Storage: Store in 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 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: September 17, 2014 (Supersedes: January 14, 2014)