

**SOVEREIGN CHEMICAL COMPANY**

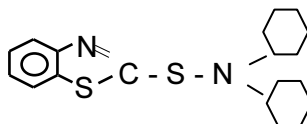
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Sovchem® DCBS Oiled Powder**Manufacturer:** Sovereign Chemical Company**Classification:** Sulfenamide Accelerator**Chemical Composition**

Chemical Structure:

Empirical Formula: $C_{19}H_{26}N_2S_2$

Molecular Weight: 347

CA Nomenclature: N,N-Dicyclohexyl-2-benzothiazolesulfenamide

Physical Data**Specification Properties**

	Value	Test Method
Melting Point, °C	97.0 minimum	ASTM D1519
Assay, % by mass	96.0 minimum	ASTM D4936
Heat loss, % by mass	0.4 maximum	ASTM D4571
Ash Content, % by mass	0.3 maximum	ASTM D4574
Dicyclohexylamine, %	0.5 maximum	Supplier
Oil Content, % by mass	1.0 – 2.0	In Process

Typical Properties

	Value	Test Method
Physical Appearance	light yellow or pink powder	Visual
Specific Gravity:	1.26 – 1.32	Typical

Applications:

Uses: Delayed-action slow curing sulfenamide accelerator. DCBS has the best scorch resistance of all sulfonamide accelerators. DCBS provides lower modulus than CBS, TBBS, MBS, MOR, thus will require higher use levels for equivalent physicals. DCBS is more often used in steel skim compounds for improved adhesion. Stocks containing DCBS can be stored for long time without deterioration in scorch safety or vulcanisate properties. DCBS is highly suitable and widely used in retread, large tires, shock absorbers and conveyor belts.

Polymers: Natural rubber, synthetic Polyisoprene, Polybutadiene, SBR and NBR.

Synergism: DCBS cure performance can be boosted with thiuram or guanidine accelerators.

Cure Effect: Promotes a slow cure rate with good scorch safety. Increasing accelerator/sulfur ratio enhances the cure efficacy.

Packaging and Storage

Packaging: 25 kg (55.1 lb) bag

Shelf Life: 12 months if stored as indicated below.

Storage: Store in unopened original packaging in a cool dry place.

Specification Date: January 8, 2015 (Supercedes: September 29, 2009)