

Sunsine CBS Granule

Manufacturer:	Shandong Sunsine Chemical for Sovereign Chemical Company
Classification:	Sulfenamide Accelerator
CA Nomenclature:	N-cyclohexyl-2-benzothiazolesulfenamide
Chemical Synonyms:	2-Benzothiazolesulfenamide, N-cyclohexyl, N-cyclohexyl-2-benzothiazylsulfenamide

Specification Properties	Value	Test Method
Ash Content, %	0.3 maximum	ASTM D4574
Assay, %	95 minimum	ASTM D4936
Cyclohexylamine, %	0.5 maximum	HG/T 2096-2006
Heat Loss, %	0.5 maximum	ASTM D4571
Melting Point (Final), °C	100-105	ASTM D1519
Melting Point (Initial), °C	96 minimum	ASTM D1519
Methanol Insolubles, %	0.5 maximum	ASTM D4934
Typical Properties	Value	Test Method
Physical Form	Off white to grayish white granules	Visual
Specific Gravity	1.27-1.30	Typical

> APPLICATIONS

Uses: Delayed action sulfenamide accelerator. CBS has the ability to provide fast efficient mixing of difficult highly loaded carbon black reinforced compound without sacrificing scorch safety or physical properties. Its vulcanizates have good reversion and aging resistance.

Polymers: Natural rubber and most synthetic elastomers.

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

Cure Effect: CBS promotes a fast cure with good scorch safety.

Crosslink Type: CBS promotes a balance of mono-, di- and poly-sulfidic crosslinks resulting in vulcanizates with a good balance between heat aging resistance and tear resistance.

> FDA REGULATIONS

Food contact surface component 21 CFR 177.2600(c)(4), 1.5% maximum weight of rubber article.

> PACKAGING AND STORAGE

Packaging: 25 kg (55.1 lb.) bags.

Shelf Life: 1 year from date of manufacture if stored as indicated below.

Storage: Store below 30°C in a dry place avoiding exposure to acidic atmosphere fumes and /or contamination with any other material to prevent premature degradation.

Specification Date: May 1, 2015 (Supersedes August 18, 2014)