

Sovchem[®] ZDEC Oiled Powder

Manufacturer: Sovereign Chemical Company
 Classification: Dithiocarbamate Accelerator
 CA Nomenclature: Zinc Diethyldithiocarbamate
 Chemical Synonyms: Zinc, bis (diethylcarbamo-dithioato-s-s')

Specification Properties	Value	Test Method
Additive, %	1-2	In Process
Heat Loss, %	0.4 maximum	GB11409.4
Melting Point (Initial), °C	174 minimum	GB11409.1
Sieve Retention on 150µ, %	0.1 maximum	GB11409.5-89
Sieve Retention on 63µ, %	0.5 maximum	GB11409.5-89
Soluble Zinc Content, %	0.01 maximum	Supplier
Zinc Content, %	17-19	SCC-119
Typical Properties	Value	Test Method
Physical Form	Pale yellow to grayish powder	Visual

> APPLICATIONS

Uses: Ultra accelerator that is activated at low temperatures. Can be used as a primary and a secondary accelerator. It has a medium scorch safety for a dithiocarbamate. Vulcanizates have excellent aging properties.

Polymers: Natural rubber and most synthetic elastomers. Also used in latex. Especially good in with slow curing polymers such as EPDM and butyls.

Synergism: ZDEC is synergistic with thiazoles where it is used as a secondary accelerator. Thiurams can be used to slightly delay the scorch of dithiocarbamates.

Cure Effect: Promotes a fast cure that is activated at low temperatures.

Crosslink Type: Dithiocarbamates promote predominately mono-sulfidic crosslinks that are good for heat aging resistance and low compression set. They promote high crosslink densities.

> 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 packaging in a cool dry place.

Specification Date: June 1, 2011 (Supersedes August 10, 2010)