

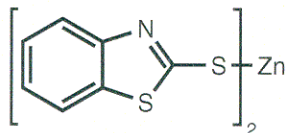
## Product Data

### PERKACIT ZMBT

Zinc 2-mercaptobenzothiazole

CAS Reg. No.: 155-04-4

Molecular weight: 398



### FUNCTION

Perkacit ZMBT's main function is as secondary accelerator in sulfur cured latex. In dry rubber applications, Perkacit ZMBT is a moderately fast curing primary accelerator.

### MAJOR APPLICATIONS AND PROPERTIES

- In latex vulcanization Perkacit ZMBT is used in combination with Perkacit ZBEC, Perkacit ZDMC or Perkacit ZDEC.
- By using Perkacit ZMBT, markedly higher moduli in latex films are obtained than with dithiocarbamates alone; furthermore a better compression set resistance in latex foam can be achieved, without increasing the cure time.
- Perkacit ZMBT does not destabilize latex formulations.
- In dry rubber applications the performance of Perkacit ZMBT is almost similar to Perkacit MBT, but with a slight scorch improvement.
- Perkacit ZMBT is regulated for use in articles in contact with food as specified under FDA 21 CFR 177.2600, 175.105, 178.3120 and under BgVV XXI, Categories 3-4.

### COMPOUNDING INFORMATION

Perkacit ZMBT is particularly recommended for use in combination with Perkacit ZDEC in latex compounds of all types. Various ratios can be used; for economic considerations it is desirable to have the proportion of Perkacit ZMBT in the mixture as high as possible without impairing the speed of cure. As a general guide, equal parts of Perkacit ZMBT and Perkacit ZDEC give good results. Good general purpose systems in dry phr are the following:

NR latex : sulfur: 1.0; Perkacit ZDEC: 0.5; Perkacit ZMBT: 0.5 phr  
 SBR latex : sulfur: 2.0; Perkacit ZDEC: 1.0; Perkacit ZMBT: 1.0 phr

MARKETED BY  
**HARWICK STANDARD  
 DISTRIBUTION CORPORATION**  
 60 S. Seiberling Street • Akron, Ohio 44305

## HANDLING PRECAUTIONS

For detailed information on toxicological properties and handling precautions please refer to the current Safety Data Sheet. This information sheet can be downloaded from our web site or requested from the nearest Flexsys office and should be consulted before handling this product.

## STORAGE RECOMMENDATIONS

Store Perkacit ZMBT in a cool, dry, well ventilated area, avoiding exposure of the packaged product to direct sunlight.

## PRODUCT INFORMATION

Perkacit ZMBT Product form	pdr powder	
<b><u>PRODUCT SPECIFICATIONS</u></b>		<u>Test method</u>
Appearance	white to slightly yellow powder	FF97.5
Zinc content (%)	15.0-18.0	FCp97.2
Free MBT (%)	14-18	FAc89.4
Heat loss (%) max.	0.5	FGr97.7
Residue on 150 µm sieve (%) max.	0.1	FF83.8
<b><u>TYPICAL PROPERTIES</u></b>		
Density at 20°C (kg/m <sup>3</sup> )	1700	
Bulk density (kg/m <sup>3</sup> )	470-510	
Compacted bulk density (kg/m <sup>3</sup> )	480-520	

MARKETED BY  
**HARWICK STANDARD  
DISTRIBUTION CORPORATION**  
60 S. Seiberling Street • Akron, Ohio 44305

For further information please visit our website, [www.Flexsys.com](http://www.Flexsys.com) or contact your local Flexsys office or regional Flexsys headquarters:

Regional Headquarters	:	Brussels	Akron
Tel.	:	+32 2 714 32 11	+1 330 666 41 11
Fax	:	+32 2 714 32 32	+1 330 668 83 45

All product names are registered trade marks.

ZMBT4.AC/0903

The information and recommendations in this publication are provided without warranty as to completeness, correctness or suitability for any particular purpose. The user of this publication assumes responsibility for and Flexsys shall not be liable for any injury, loss or damage arising from any use or reliance upon its contents.

©Copyright Flexsys 2003.

page 2 of 2