



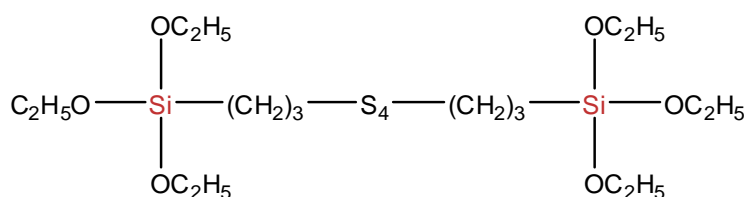
# SiSiB® PC2000B SOLID

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## CHEMICAL NAME

SiSiB® PC2000B is a 1:1 blend of N 330 carbon black and SiSiB® PC2000.

## CHEMICAL STRUCTURE



SiSiB® PC2000

## INTRODUCTION

SiSiB® PC2000B was developed for customers who prefer to handle SiSiB® PC2000 in a solid version. It is applied in rubber industry in combination with white fillers containing silanol groups.

## TYPICAL PHYSICAL PROPERTIES

Appearance:	Black Powder
Heating Loss, 100°C, 2h	2.0% Max.
Ash, 2g, 4h, 1000°C	10.5~12.5%
Sulfur Content	10.5~12.5%
Insoluble substance of butanone	48.0-54.0%
Acetone Extract	46.5-48.5%
Volatiles, 2h, 105°C	4.0% Max
Chloride Content	0.35% Max.

## APPLICATIONS

SiSiB® PC2000 in SiSiB® PC2000B reacts with silanol groups of white fillers during mixing and with the polymer during vulcanization under the formation of covalent chemical bonds. This imparts greater tensile strength, higher moduli,

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ISO9001 ISO14001 certificated

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reduced compression set, increased abrasion resistance and optimized dynamic properties.

SiSiB® PC2000B is used in a variety of rubber products where silanol group-containing white fillers are used and where optimum technical properties are required.

## APPLICATION AREA

### Footwear

- Abrasion resistance
- Cutting and chunking resistance
- Flex life improvement

### Rolls

- Abrasion resistance
- Aging resistance
- Processing
- Set reduction (better load bearing)
- Reduced water swell
- Lower hysteresis

### Mechanical Molded Goods

- Increased modulus
- Better heat aging
- Compression set reduction
- Dynamic property improvement
- Reduced swell to polar liquids
- Filler substitution (non-black for black)

### Hose

- Improved abrasion on cover
- Better heat aging
- Increased modulus
- Lower compression set
- Improved adhesion to reinforcing elements

### Solid Tires

- Improved abrasion
- Lower hysteresis
- Higher modulus
- Improved processing
- Possibly better adhesion

### Tires



- Treads for abrasion, hot tear
- Carcass for adhesion and/or filler substitution
- Breaker (belt) stocks for adhesion

## Belts

### Flat Belts

- Increased abrasion
- Improved reversion resistance
- Reduced cost with clay substitution for black
- Improved cord adhesion
- Increased flex life and modulus

### V Belts

- Increased modulus
- Improved abrasion
- Longer flex life
- Improved adhesion to reinforcing elements

## PACKING AND STORAGE

SiSiB<sup>®</sup> PC2000B is supplied in net weight 25Kg HDPE lined paper sack.

When stored between 10°C and 40°C in the original unopened original container SiSiB<sup>®</sup> PC2000B has a shelf life of one year in a dry place.

## NOTES

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability. We disclaim liability for any incidental or consequential damages.

Please send all technical questions concerning quality and product safety to: [silanes@SiSiB.com](mailto:silanes@SiSiB.com).