

## ENDURE™ E23 carbon black



### GENERAL DESCRIPTION

Many industrial rubber product applications operate under severe conditions that lead to significant wear and tear. Improved durability of the rubber components may provide a distinct total cost advantage. As part of Cabot's ongoing commitment to deliver solutions that meet our customers' needs, we have developed the ENDURE™ family of carbon blacks engineered for durability.

Improving wear, chunking and tear resistance or reducing heat buildup can result in longer part life, reducing costly equipment downtime, increasing throughput and enhancing end user profitability. Cabot products can enhance rubber part life and durability by optimizing the balance between heat buildup and reinforcement and are identified by the letter "D" in the ENDURE nomenclature system.

In certain applications such as conveyor belts, reduced hysteresis in the rubber compound may also be of interest as it can result in decreased power consumption, representing a significant energy and operating cost saving. In other applications such as rubber tracks and certain mill liners, a decrease in hysteresis can help with extending part life. Cabot products can help reduce energy costs and part life by optimizing the balance between hysteresis and reinforcement and are identified by the letter "E" in the ENDURE nomenclature system.

### PERFORMANCE FEATURES

ENDURE™ E23 carbon black offers similar wear to ASTM N234 carbon blacks with improved levels of hysteresis. Dispersion and recommended mixing protocols are similar to ASTM N200 series carbon blacks.

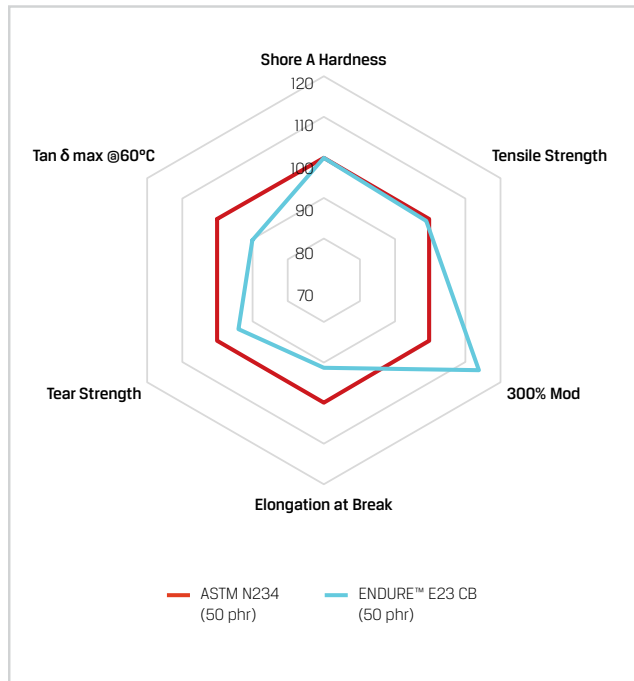
### TYPICAL APPLICATIONS

- ◆ Tread of rubber tracks
- ◆ Mining mill liners
- ◆ Cover of high abrasion resistant conveyor belts

# ENDURE™ E23 carbon black

## TECHNICAL DATA

ENDURE™ E23 carbon black can reduce the hysteresis of rubber compounds compared to compounds made with ASTM N200 series carbon black, while maintaining good reinforcement properties.



100 NR Formulation	ASTM N234	ENDURE™ E23 CB
Loading, (phr)	50	50
Hardness, (Shore A)	65	65
Tensile Strength, (MPa)	29.7	29.4
100% Mod, (MPa)	2.7	3.3
300% Mod, (MPa)	14.2	16.2
Elongation at Break, (%)	540	495
Tear Strength, (N/mm)	182	171
Rebound @23°C, (%)	49	52
Tan δ max @60°C	0.2	0.18

### NORTH AMERICA

Cabot Corporation  
4400 North Point Parkway  
Suite 200  
Alpharetta, GA 30022  
USA  
**TEL** +800 322 1236

### SOUTH AMERICA

Cabot Brasil Indústria e  
Comércio Ltda.  
Rua do Paraíso 148-5 andar  
Sao Paulo – SP - 04103-000  
Brazil  
**TEL** +55 11 2144 6429

### EMEA\*

Cabot EMEA Business Service  
Centre  
SIA Cabot Latvia  
101 Mukusalas Street  
Riga, LV-1004  
Latvia  
**TEL** +371 6705 0700  
\*Europe, Middle East and Africa

### CHINA

Cabot China Ltd.  
558 Shuangbai Road  
Minghang District  
Shanghai 201108  
China  
**TEL** +86 21 5175 8800

### ASIA PACIFIC NORTH

Cabot Japan K.K. Sumitomo  
Shiba-Daimon Bldg.  
3F 2-5-5 Shiba Daimon  
Minato-ku Tokyo 105-0012  
Japan  
**TEL** +81 3 3431 1721

### ASIA PACIFIC SOUTH

PT. Cabot Indonesia  
Talavera Suite 21F Unit 1-3  
Jl. Letjen TB Simatupang  
Kav 22-26, Cilandak  
Jakarta 12430  
Indonesia  
**TEL** +62 21 27584100

This information is provided as a convenience and for informational purposes only. No guarantee or warranty as to this information, or any product to which it relates, is given or implied. Cabot disclaims all warranties express or implied, including intellectual property infringement, merchantability or fitness for a particular purpose as to (i) such information, or (ii) any product. In no event is Cabot responsible for, and Cabot does not accept and hereby disclaims liability for, any damages whatsoever in connection with the use of or reliance on this information or any product to which it relates.

The ENDURE™ brand is a trademark of Cabot Corporation.  
©2018 Cabot Corporation. All rights reserved worldwide.  
ENE23\_pds 05/2018



cabotcorp.com