

STERLING® SO



STERLING® SO carbon black is a standard semi-reinforcing grade that can be used in various tire carcass applications when moderate modulus, moderate reinforcement, and good processing characteristics are required. STERLING SO is particularly suited for tire carcass applications that require good extrusion characteristics with slightly more reinforcement than the more economical STERLING VH.

STERLING SO has been in the Cabot portfolio of grades for many decades. It is the most reinforcing of the semi-reinforcing grades of carbon, and traditionally has also been the most costly. STERLING SO conforms to ASTM grade N550.

Performance Features

- Reinforcement higher than N660, N650, or N772/N774
- Ease of dispersion
- Good extrusion characteristics
- Economical reinforcement for many carcass applications

Typical Applications

- Passenger tire sidewalls
- Passenger tire ply skim compound
- Industrial product applications including hose, weatherstrips, extruded profiles, roofing, seals, and moldings

STERLING SO Carbon Black from Cabot Corporation

STERLING SO carbon black represents an economical way to obtain moderate reinforcement of tire carcass or industrial product compounds. It is the most reinforcing of the semi-reinforcing grades. Its excellent extrusion characteristics and ease of dispersion make it user friendly.

Recipe: ASTM SBR, D 3191: 100 S1500, black as noted, 5 ZnO, 1.5 stearic acid, 2.0 MBTS, 2.0 S

Carbon Blacks	STERLING SO / N550	STERLING V / N660	N772
Loading	40	50	62
Note: loading adjusted to give 60 Shore A2			
Extrusion Shrinkage, ASTM D 2230			
Method B, %	57.5	60.0	61.0
Tensile, 50' @ 145C, MPa	22.2	21.3	20.5
50' 300% Modulus, MPa	10.8	9.5	9.9
Elongation, %	525	550	550
Resilience, ASTM D 1054,60'	63.7	63.2	61.9

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. This information may contain inaccuracies, errors or omissions and CABOT DISCLAIMS ALL WARRANTIES EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AS TO (i) SUCH INFORMATION, (ii) ANY PRODUCT OR (iii) INTELLECTUAL PROPERTY INFRINGEMENT. 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.

NORTH AMERICA
 Cabot Corporation
 Rubber Blacks
 1095 Windward Ridge Pkwy
 Suite 200
 Alpharetta, GA 30005
 (800) 472-4889
 www.cabot-corp.com

SOUTH AMERICA
 Cabot Brasil Industria e Comércio
 Ltda.
 Av. João Castaldi, 88
 04517-900 São Paulo, SP
 Brazil
 Tel: (55-11) 5536-0388
 www.cabot-corp.com

EUROPE
 Cabot Europe Ltd./Cabot
 Europe/Cabot GIE
 Le Nobel 4B
 2 rue Marcel Monge
 92158 Suresnes Cedex, France
 Tel: (33-1) 46-97-58-00
 www.cabot-corp.com

ASIA, PACIFIC
 Asia Pacific Region
 Level 14, MNI Tower 2,
 11 Jalan Pinang
 50450 Kuala Lumpur, Malaysia
 Tel: (60-3) 2164 8352
 www.cabot-corp.com