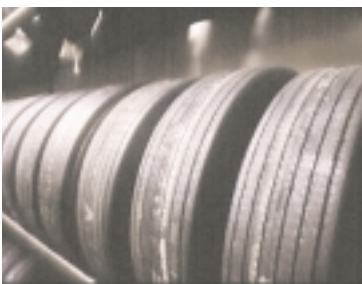


VULCAN® 3H



VULCAN® 3H carbon black has been in the Cabot portfolio for many years. It is an industry standard for many tire applications, including tread and carcass applications. VULCAN 3H conforms to ASTM N347. It imparts good wear resistance to all tire tread rubbers. VULCAN 3H is also an exceptionally easy grade to disperse and extrude.

VULCAN 3H is particularly suited for tire treads that require good wear resistance, including those made from emulsion SBR, solution SBR, BR, natural rubber, or blends of any of these polymers. In the industrial rubber goods area, VULCAN 3H is also recommended for conveyor belts, solid tires, and other products requiring good abrasion resistance.

Performance Features

- Good abrasion resistance
- Ease of dispersion
- Excellent extrusion characteristics

Typical Applications

- Passenger tire treads
- Truck tire treads
- Passenger and truck tire sidewalls
- Industrial product applications

VULCAN 3H Carbon Black from Cabot Corporation

VULCAN 3H carbon black represents the traditional way to obtain good treadwear and abrasion resistance. Its excellent extrusion characteristics and ease of dispersion make it factory friendly.

Recipe: 65 S-1712 / 35 BR , 75 black, 50 total oil, 3 ZnO, 2 stearic acid, 2 AO, 2.5 wax, 1.4 CBS, 1.75 S

Carbon Blacks	VULCAN K / N351	VULCAN 3H / N347	VULCAN 3 / N330
Treadwear rating	102	108	100

Processing Properties

Carbon Blacks	VULCAN K / N351	VULCAN 3H / N347	VULCAN 3 / N330
Mooney Viscosity ML 1+4 @ 100C	37	42	36
Mooney Scorch ML @ 135C T10	19.5	18.7	20.7
Extrusion Shrinkage ASTM D 2230, method B % relative to N330	89.4	86.1	100
Visual dispersion, ASTM D2663	4.5	4.5	4.4



Physical Properties

Carbon Blacks	VULCAN K / N351	VULCAN 3H / N347	VULCAN 3 / N330
ASTM D 1765			
Cured 60' @ 145C			
Tensile Strength, MPa	19.0	18.6	18.3
300% Modulus, MPa	8.4	8.8	6.6
Elongation at break,%	560	530	630
Hardness, Shore A2	56	55	54
Resilience, ASTM D 1054, cured 70'			
% relative to N330	101	103	100

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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