

VULCAN® 6



VULCAN® 6 carbon black has been in the Cabot portfolio for many years. It is an industry standard for many tire applications, often used as the "par" in treadwear testing against newer grades. VULCAN 6 conforms to ASTM N220. It imparts good wear resistance to all tire tread rubbers. VULCAN 6 is also an exceptionally easy grade to disperse and extrude.

VULCAN 6 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 6 is also recommended for conveyor belts, solid tires, and other products requiring excellent abrasion resistance.

VULCAN 6 Carbon Black from Cabot Corporation

VULCAN 6 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

Carbon Blacks	VULCAN 6 / N220	VULCAN M / N339	VULCAN 3H / N347
Treadwear rating	100	99	95

Performance Features

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

Typical Applications

- Passenger tire treads
- Truck tire treads
- OTR tires
- Industrial product applications including conveyor belts and molded compounds





Processing Properties

Carbon Blacks		VULCAN 6 / N220	VULCAN M / N339	VULCAN 3H / N347
Mooney Viscosity ML 1+4 @ 100C		46	46	44
Mooney Scorch ML @ 135C	T5	17.2	14.4	16.3
	T10	18.6	15.6	18.1
Extrusion Shrinkage ASTM D 2230, method B % relative to N220		100	94.3	94.0

Physical Properties

Carbon Blacks		VULCAN 6 / N220	VULCAN M / N339	VULCAN 3H / N347
ASTM D 1765 Cured 60' @ 145C				
Tensile Strength, MPa		20.1	19.6	19.3
300% Modulus, MPa		7.8	9.3	9.0
Elongation at break, %		560	530	530
Hardness, Shore A2		56	56	55

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