

VULCAN[®] 6 carbon black



GENERAL DESCRIPTION

VULCAN[®] 6 carbon black has been in the Cabot product portfolio for many years. It is an industry standard for many tire applications and often used as the benchmark in tread wear testing against other carbon blacks. VULCAN 6 carbon black conforms to ASTM N220 target value standards and is higher in surface area than ASTM N300 series products.

PROPERTIES	TEST METHOD (ASTM)	UNITS	TYPICAL VALUE
Iodine adsorption number	D1510	mg/kg	121
Oil absorption number (OAN)	D2414	ml/100g	114
OAN after crushing (COAN)	D3493	ml/100g	98
Tinting strength	D3265	%	115
STSA surface area	D6556	m ² /g	104

PERFORMANCE FEATURES

VULCAN 6 carbon black is well suited for tire treads that require better wear, tear and cut/chip resistance than offered by ASTM N300 type carbon blacks. VULCAN 6 carbon black has excellent extrusion characteristics, and its ease of dispersion makes it factory friendly.

VULCAN 6 carbon black is also recommended for industrial rubber product applications requiring high abrasion and tear resistance, such as conveyor belts and solid tires.

TYPICAL APPLICATIONS

- Treads of Truck and off-the-road (OTR) tires
- Passenger tire treads
- Solid tires, conveyor belts, molded components

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TECHNICAL DATA

Test Formulation: 89 SBR 1712, 35 BR, 11 free oil

	VULCAN [®] 6	ASTM N339	ASTM N347
Loading (phr)	75	75	75

PROCESSING PROPERTIES

Mooney Viscosity

ML (1+4) at 100°C, (M.U.)	46	46	44
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Extrusion Shrinkage ASTM D2230

Method B, % Relative to VULCAN [®] 6	100	94	94
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PHYSICAL PROPERTIES

Hardness

Shore A	56	56	55
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Tensile Properties

Tensile Strength, MPa	20.1	19.6	19.3
300% Modulus, MPa	7.8	9.3	9.0
Elongation at Break, %	560	530	530

Tread Wear Rating Index*

	100	99	95
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* High is better

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