

VULCAN® 9 CARBON BLACK

ASTM (D1765) REFERENCE: N115

Former Industry Reference: SAF

Description

VULCAN 9 carbon black is a pelleted furnace black which imparts a very high degree of reinforcement to natural and synthetic rubbers. It is in the class previously known as Super Abrasion Furnace black, now defined in ASTM D1765 as N115. VULCAN 9 carbon black has a high surface area per unit mass and a relatively low structure. Vulcanisates containing VULCAN 9 carbon black have

outstandingly high tensile strength, tear strength and abrasion resistance, coupled with relatively low modulus and low resilience (high hysteresis). Rubber compounds containing VULCAN 9 carbon black have low electrical resistivity. Uncured compounds have high viscosity and a tendency to generate high temperatures during processing. As a consequence of its high surface area and relatively low

structure, special care may be needed to achieve good dispersion of VULCAN 9 carbon black, particularly in low viscosity systems.

Applications

This premium grade carbon black is used in applications calling for exceptional abrasion resistance, tensile strength, such as aero-tires, off-the-road tires and retreads, and premium truck tire treads and retreads. It may also be used as a component of high performance car tire treads.





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TYPICAL PROPERTIES	TEST METHOD		UNITS	TYPICAL VALUE
	ASTM	ISO		
STSA surface area	D5816		m ² /g	123
Iodine adsorption number	D1510	1304	mg/g	160
Dibutyl Phthalate absorption (DBPA)	D2414	4656/1	ml/100 g	113
DBPA after crushing (C-DBPA)	D3493	6894	ml/100 g	96
Tinting strength (*)	D3265	5435	% ITRB	123
Pour density	D1513	1306	Kg/m ³	345
Ash content	D1506	1125	%	1.0 max
Moisture content, as packed or shipped in bulk	D1509	1126	%	1.2 max
Fines content, as shipped in rigid bulk container	D1508	1435	%	12 (15) max

(*) Results relative to result for Industry Tint Reference Black
Typical values in brackets are referred to dry process

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