

**CARBON BLACK
ASTM (D1765) REFERENCE: N134**



VULCAN® 10H



Description

Vulcan® 10H furnace black is a pelleted carbon black which imparts an exceptionally high degree of reinforcement to natural and synthetic rubbers. The ultimate carbon particles in VULCAN 10H carbon black are highly aggregated, with a structure level, as shown by DBPA and C-DBPA results, slightly higher than that of VULCAN 7H carbon black. VULCAN 10H carbon black differs from VULCAN 7H carbon black in having higher surface area per unit mass, as shown by the results for both iodine Adsorption Number and STSA surface area. Tint values indicate smaller aggregates in VULCAN 10H carbon black than in VULCAN 7H carbon black. As would be expected from the higher surface area per unit mass and smaller aggregates, VULCAN 10H carbon black is significantly more reinforcing than VULCAN 7H carbon black, in tire tread formulations treadwear is about 5% superior, loss modulus about 10% higher and tangent delta about 3% greater. As for VULCAN 7H carbon black, the high structure results in relatively easy dispersion, and ability to accept high oil loading.

Applications

By virtue of its exceptionally high degree of reinforcement, coupled with high loss modulus and tangent delta, VULCAN 10H carbon black is ideally suited to application in tire tread formulations for the high performance market.

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