

## VULCAN<sup>®</sup> 10HD carbon black



### GENERAL DESCRIPTION

VULCAN<sup>®</sup> 10HD carbon black is a reinforcing carbon black, offering high reinforcement and very high resistance to abrasion in natural and synthetic rubbers.

VULCAN 10HD carbon black has a higher STSA surface area and smaller aggregates than ASTM N234, N115, N120 and N110 carbon blacks. The ultimate carbon black particles are highly aggregated.

VULCAN 10HD addresses the market need for better abrasion resistance than ASTM N234 and N115 carbon blacks, but with less impact on viscosity and hysteresis than VULCAN 10H carbon black.

### PERFORMANCE FEATURES

VULCAN 10HD carbon black is easier to disperse and imparts a lower hysteresis to rubber compounds than VULCAN 10H carbon black. VULCAN 10HD carbon black is ideally suited for compounders who face processing challenges with VULCAN 10H carbon black, but are in need of better tire read wear resistance than offered by traditional ASTM N200 and N100 carbon blacks.

VULCAN 10HD carbon black is very well suited for the treads of truck and bus tires subject to severe abrasion conditions. VULCAN 10HD carbon black is also recommended for the use in blends with silica in compounds for the treads of low rolling resistance truck tires to help maintain wear resistance.

VULCAN 10HD carbon black exhibits high stiffness and loss modulus, leading to good tire handling and dry grip. That makes VULCAN 10H carbon black a good choice for use in combination with silica in compounds for the treads of high performance passenger and light truck tires.

### TYPICAL APPLICATIONS

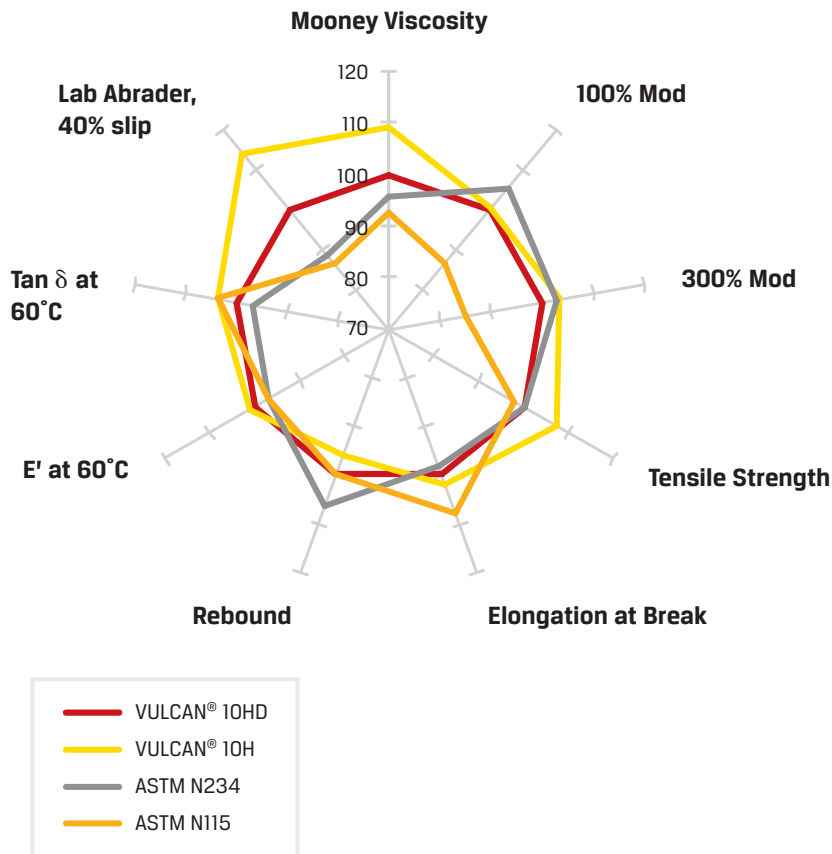
- Treads of passenger, truck and OTR tires
- Truck tire re-treads

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## TECHNICAL DATA

VULCAN<sup>®</sup> 10HD carbon black can improve the rubber reinforcement and abrasion resistance in comparison with ASTM N234 and N115 carbon blacks. The dispersion and processing in rubber compounds of VULCAN 10HD carbon black is easier and hysteresis of rubber compounds is lower than observed for compounds made with VULCAN 10H carbon black.

Test Formulation: 100 phr NR, 50 phr carbon black



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