

**CARBON BLACK**  
**ASTM (D1765) REFERENCE: N772**  
**FORMER INDUSTRY REFERENCE: SRF-LM-NS**



## REGAL<sup>®</sup> SRF



### Description

REGAL<sup>®</sup> SRF carbon black is a pelleted furnace black in the class known as Semi-Reinforcing Furnace black, defined by ASTM D1765 as N772.

Within the range of Cabot furnace blacks, REGAL SRF carbon black has the lowest surface area per unit mass (shown by low values for iodine number and STSA) and the lowest structure (refer to DBPA and C-DBPA values).

Mixing in natural and synthetic rubber compounds is easy, even at high black loadings. Uncured compounds have low viscosity and generate relatively little heat in processing, but show, at a given loading, higher die swell and extrusion shrinkage than other grades. Vulcanized compounds have lower modulus and tensile strength, but higher resilience, lower compression set and higher electrical resistivity than those containing other Cabot blacks at the same loading. The low surface area and low structure allow higher loadings to be used in many rubber compounds, so contributing to reduced swelling in adverse environments, reduced permeability and reduced cost. When used in association with mineral fillers, REGAL SRF carbon black offers the best compounding alternative to Thermal Black.

### Applications

REGAL SRF carbon black finds application in tire compounding in areas where good dynamic performance is needed, with minimal heat generation in flexing, and in areas where high black loadings are desirable. Applications include carcass, tube and inner-liner compounds.

There is a very wide range of applications for REGAL SRF carbon black in industrial rubber products, particularly in circumstances requiring low modulus, low compression set and good resilience, or in those requiring high black loadings. Examples include gaskets, seals, windscreen wiper blades, engine mountings and hose linings.

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