CARBON BLACK

ASTM (D1765) REFERENCE: N539

FORMER INDUSTRY REFERENCE: FEF-LS



STERLING® SO-1



Description

STERLING® SO-1 furnace black is a pelleted semireinforcing grade of the class previously know as Fast Extrusion Furnace-Low Structure black (FEF-LS), now defined in ASTM D1765 as N539. STERLING SO-1 carbon black has surface area per unit mass closely similar to that of STERLING SO grade (see values for iodine number and STSA), while having a lower degree of particle aggregation (structure) and similar aggregate size (as indicated by DBPA and tint results, respectively).

Together, STERLING SO-1 and STERLING SO carbon blacks are the most reinforcing members of the range of Cabot semi-reinforcing grades. Compared with the Cabot reinforcing grades, STERLING SO-1 carbon black and all the Cabot semi-reinforcing grades give easier processing compounds with good dispersion and higher loading capacity, but with significantly lower levels of reinforcement, as indicated particularly by lower tensile

strength in non-crystallizing polymers (e.g. SBR), lower tear strength and abrasion resistance, and higher resilience. With the exception of lower hardiness and modulus, and slightly greater die swell, STERLING SO-1 carbon black gives properties in rubber generally similar to those given by STERLING SO grade. Slightly higher loadings are possible, leading to economy in compound

Applications

Applications of tire manufacture include tire carcass and tube compounds. Principal applications in industrial rubber products are in those produced by extrusion, including hose, weatherstrips and extruded profiles. There are also applications in single-ply roofing, seals and moldings.

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