

## STERLING® 105



### Description

STERLING® 105 carbon black is a pelleted semi-reinforcing furnace black with very highly aggregated ultimate particles. It is a member of the class previously known as "All Purpose Furnace" black (APF), now defined by ASTM D1765 as N683.

STERLING 105 carbon black is similar to STERLING® V, ASTM N660 grade in surface area per unit and hence similar in ability to strengthen rubber compounds. It differs from STERLING V carbon black in having a much higher degree of particle aggregation and structure.

Thanks to its very high structure and relatively low surface area, STERLING 105 carbon black is easy dispersible in all types of rubber polymers. Rubber compounds containing STERLING 105 carbon black have capacity for high plasticizer loading, while maintaining good green strength and very high dimensional stability, both during processing and after calendaring or extruding. Surface finish of calendared and extruded items is smooth and glossy.

### Applications

Applications of STERLING 105 carbon black in the tire manufacturing process include tire carcass and tube compounds. STERLING 105 carbon black is also used in the manufacture of calendared goods like single-ply roofing, flooring and other decorative items. STERLING 105 is well suited for extruded goods. This includes continuous manufacturing processes for solid and sponge compounds where surface appearance is critical for items like windscreen seals and automotive weather-strips.

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