

## STERLING® V

STERLING® V carbon black is a semi-reinforcing grade that can be used in various tire carcass applications when moderate modulus, moderate reinforcement, and good processing characteristics are required. STERLING V conforms to ASTM grade N660. STERLING V is particularly suited for tire carcass applications that require good extrusion characteristics.

STERLING V is also a potential cost-effective replacement for SRF carbon blacks such as N772 or N774. STERLING V may offer similar processing and improved reinforcement at equal or less compound cost.

STERLING V was introduced by Cabot Corporation in the late 1960's; compounders have had been able to use this carbon black in other creative applications. One intriguing possibility this black offers is the substitution of N772/N774 at a lower compound cost via the addition of processing oil. Some customers have substituted STERLING V for a blend of N550/N774, achieving a measure of grade rationalization. Last, by increasing the loading slightly, STERLING V can sometimes substitute for the more expensive N550. STERLING V conforms to ASTM grade N660.

### STERLING V Carbon Black from Cabot Corporation

STERLING V carbon black represents an economical way to obtain moderate reinforcement of tire carcass compounds. Its excellent extrusion characteristics and ease of dispersion make it user friendly.

Recipe: ASTM SBR, D 3191: 100 S1500, black as noted, 5 ZnO, 1.5 stearic acid, 2.0 MBTS, 2.0 S

Carbon Blacks	STERLING SO / N550	STERLING V / N660	N772
Loading	40	50	62
Note: loading adjusted to give 60 Shore A2			
Extrusion Shrinkage, ASTM D 2230			
Method B, %	57.5	60.0	61.0
Tensile, 50' @ 145C, MPa	22.2	21.3	20.5
50' 300% Modulus, MPa	10.8	9.5	9.9
Elongation, %	525	550	550
Resilience, ASTM D 1054,60'	63.7	63.2	61.9

### Performance Features

- Reinforcement higher than N772/N774
- Ease of dispersion
- Good extrusion characteristics
- Economical

### Typical Applications

- Passenger tire sidewalls
- Passenger tire ply skim compound
- Tubes and undertreads
- Industrial product applications include engine mounts, seals, gaskets, and hose linings



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