CLAIMS

What is claimed is:

1. A carbon black having the following properties:
    a) a nitrogen surface area (NSA) ranging from 55m^2/g to 59 m^2/g;
    b) a statistical thickness surface area (STSA) ranging from 55 m^2/g to 59 m^2/g;
    c) an iodine absorption number ranging from 62 mg/g to 66 mg/g;
    d) an oil absorption number (OAN) ranging from 73 cc/100g to 77 cc/100g; and
    e) a compressed oil absorption number (COAN) ranging from 68 cc/100g to 73 cc/100g.
2. The carbon black of claim 1, having

a 325 mesh water wash residue of less than about 100 ppm.

3. An elastomeric composition comprising:
    a) an elastomer in an amount of 100 parts per hundred rubber (phr); and
    b) a carbon black in an amount ranging from 35 parts per hundred rubber (phr) to 75 parts per hundred rubber (phr);

    wherein the carbon black has the following properties: a nitrogen surface area (NSA) ranging from 55 m^2/g to 59 m^2/g; a statistical thickness surface area (STSA) ranging from 55 m^2/g to 59 m^2/g; an iodine absorption number ranging from 62 mg/g to 66 mg/g; an oil absorption number (OAN) ranging from 73 cc/100g to 77 cc/100g; and a compressed oil absorption number (COAN) ranging from 68 cc/100g to 73 cc/100g; and a 325 mesh water wash residue of less than 25 ppm.
4. The elastomeric composition of claim 3, wherein the elastomer comprises natural rubber (NR), polybutadiene rubber (BR), styrene butadiene rubber (SBR), synthetic polyisoprene rubber, butyl rubber, ethylene propylene rubber, or any blend or combination thereof.
5. The elastomeric composition of claim 3, wherein the elastomer comprises natural rubber (NR), polybutadiene rubber (BR), or any blend or combination thereof.

6. The elastomeric composition of claim 5, wherein the elastomer comprises natural rubber (NR) in an amount ranging from 40 to 100 parts per hundred rubber (phr) and polybutadiene rubber (BR) in an amount ranging from 0 to 60 parts per hundred rubber (phr).

7. The elastomeric composition of claim 3, wherein the composition exhibits an IFM dispersion index that is at least 5% higher than that exhibited by a substantially identical reference composition but with the carbon black replaced with ASTM N326 grade carbon black.

8. The elastomeric composition of claim 7, wherein the composition exhibits an IFM dispersion index that ranges from 5% higher to 60% higher than that exhibited by the substantially identical reference composition.

9. The elastomeric composition of claim 3, wherein the composition exhibits a tensile strength that differs less than 5% of a tensile strength exhibited by a substantially identical reference composition but with the carbon black replaced with ASTM N326 grade carbon black.

10. The elastomeric composition of claim 3, wherein the composition exhibits elongation at break that differs less than 5% of elongation at break exhibited by a substantially identical reference composition but with the carbon black replaced with ASTM N326 grade carbon black.

11. The elastomeric composition of claim 3, wherein the composition exhibits a hysteresis indicator value that is at least 10% less than a hysteresis indicator value exhibited by a substantially identical reference composition but with the carbon black replaced with ASTM N326 grade carbon black.

12. The elastomeric composition of claim 3, wherein the composition exhibits a hysteresis indicator value that is from 10% less to 20% less than a hysteresis indicator value exhibited by the substantially identical reference composition.

13. The elastomeric composition of claim 3, wherein the composition exhibits a tear strength value that is equal to or up to 40% greater than a tear strength value exhibited by a substantially identical reference composition but with the carbon black replaced with ASTM N326 grade carbon black.

14. The elastomeric composition of claim 3, wherein the composition exhibits a cord adhesion value that is equal to or up to 60% greater than a cord adhesion value exhibited by a

substantially identical reference composition but with the carbon black replaced with ASTM N326 grade carbon black.

15. The elastomeric composition of claim 3, wherein the composition exhibits a fatigue life value that is equal to or up to 60% greater than a fatigue life value exhibited by a substantially identical reference composition but with the carbon black replaced with ASTM N326 grade carbon black.

16. An article comprising the elastomeric composition of claim 3.

17. A method comprising:

a) providing an elastomer in an amount of 100 parts per hundred rubber (phr);

b) providing a carbon black in an amount ranging from 35 parts per hundred rubber (phr) to 75 parts per hundred rubber (phr); and

c) mixing the elastomer and the carbon black to form an elastomeric composition;

wherein the carbon black has the following properties: a nitrogen surface area (NSA) ranging from 55 m^2/g to 59 m^2/g; a statistical thickness surface area (STSA) ranging from 55 m^2/g to 59 m^2/g; an iodine absorption number ranging from 62 mg/g to 66 mg/g; an oil absorption number (OAN) ranging from 73 cc/100g to 77 cc/100g; a compressed oil absorption number (COAN) ranging from about 68 cc/100g to about 73 cc/100g; and a 325 mesh water wash residue of less than 25 ppm.