

## MATERIAL SPECIFICATION

### Carbon black N234

PROPERTY	Target	Tolerance	ASTM test method
1. Iodine adsorption, g/kg	120	± 6	D 1510
2. Oil absorption number, cm <sup>3</sup> /100g	125	± 6	D 2414
3. Sieve residue 45 µm (No.325), %		≤ 0.1	D 1514
4. Sieve residue 500 µm (No.35), %		≤ 0.001	D 1514
5. Heating loss, %		≤ 1.0	D 1509
6. Ash content, %		≤ 0.75	D 1506
7. Pour density, kg/m <sup>3</sup>	320	± 25	D 1513
8. Fines content, %		≤ 7	D 1508
9. pH value		7 ÷ 10	D 1512
10. Sulfur content, %		≤ 1.1	D 1619
11. Individual pellet hardness (average of 20), g		≤ 55	D 5230
12. Individual pellet hardness (max of 20), g		≤ 90	D 5230
13. Toluene discoloration, %		≥ 90	D 1618
14. BET surface area (NSA), m <sup>2</sup> /g	119	± 5	D 6556
15. External surface area (STSA), m <sup>2</sup> /g	112	± 5	D 6556
16. Tint strength	123	± 5	D 3265
17. Oil absorption number of compressed sample, cm <sup>3</sup> /100g	102	± 5	D 3493