

CARBON BLACK SPECIFICATION SHEET

PROPERTY	TARGET										TOLERANCE	ASTM test method
	N 121	N 220	N 330	N 339	N 347	N 375	N 550	N 660	N 762	N 772		
1. Iodine absorption number, g/kg	121	121	82	90	90	90	43	36	27	30	± 5	D 1510
2. Oil absorption number, cm ³ /100g	132	72	102	120	124	114	121	90	65	65	± 5	D 2414
3. CTAB surface area, m ² /g	-	111	82	93	-	96	41	36	-	33	± 5	D 3765
4. Sieve residue 45 µm (No. 325), %											≤ 0.1	D 1514
5. Sieve residue 500 µm (No. 35), %											≤ 0.001	D 1514
6. Heating loss, %											≤ 1.0	D 1509
7. Ash content, %											≤ 0.75	D 1506
8. Pour density, Kg/m ³	320	355	380	345	335	345	360	440	515	520	± 25	D1513
9. Fines content, %											≤ 7.0	D 1508
10. pH value											7÷10	D 1512
11. Sulfur content, %											≤ 1.1	D 1619
12. Individual pellet hardness (average of 20), g	-	25÷40	25÷40	25÷40	-	15÷45	25÷40	25÷40	-	-	20÷40	D 5230
13. Individual pellet hardness (max of 20), g											≤ 60	D 5230
14. Toluene discoloration, % min	-	90	85	75	-	75	80	75	-	-	≥ 80	D 1618
15. BET surface area (NSA), m ² /g	122	114	78	91	85	93	40	35	29	32	± 5	D 6556
16. External surface area (STSA), m ² /g	114	106	75	88	83	91	39	34	28	30	± 5	D 6556
17. Tint strenght	119	116	104	111	105	114	-	-	-	-	± 5	D 3265
18. Oil absorption number of compressed sample, cm ³ /100g	111	98	88	99	99	96	85	74	59	59	± 5	D 3493
19. Reception temperature, °C											< 100	