



**PrJSC “KCBP”  
Table of carbon black quality parameters,  
according to ASTM**

№	Quality parameters	Carbon black types according to ASTM methods												ASTM methods
		N220	N234	N326	N330	N339	N347	N375	N539	N550	N650	N660	N772	
1.	Iodine Adsorption Number, g/kg	121±5	120±5	82±5	82±5	90±5	90±5	90±5	43±5	43±5	36±5	36±5	30±5	D1510
2.	Oil Adsorption Number, cm <sup>3</sup> /100g	114±5	125±5	72±5	102±5	120±5	124±5	114±5	111±5	121±5	122±5	90±5	65±5	D2414
*3.	Oil Adsorption Number, Compressed Sample, cm <sup>3</sup> /100g	98±5	102±5	68±5	88±5	99±5	99±5	96±5	81±5	85±5	84±5	74±5	59±5	D3493
*4.	Total Surface Area by Nitrogen Adsorption (NSA), m <sup>2</sup> /g	114±6	119±6	78±6	78±6	91±6	85±6	93±6	39±6	40±6	36±6	35±6	32±6	D6556
*5.	External Surface Area by Nitrogen Adsorption (STSA), m <sup>2</sup> /g	106±6	112±6	76±6	75±6	88±6	83±6	91±6	38±6	39±6	35±6	34±6	30±6	D6556
*6.	CTAB Surface Area, m <sup>2</sup> /g	111±7	119±7	82±6	82±6	93±6	87±6	96±6	-	42±5	38±5	36±5	-	D3765
*7.	Tint Strength	116±5	123±5	111±5	104±5	111±5	105±5	114±5	-	-	-	-	-	D3265
8.	pH Value	7÷10	7÷10	7÷10	7÷10	7÷10	7÷10	7÷10	7÷10	7÷10	7÷10	7÷10	7÷10	D1512
9.	Heating Loss, %, max	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	D1509
10.	Ash Content, %, max	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	0,45	D1506
11.	Sieve Residue 45µm (325 USStd Sieve) ppm, max	200	200	200	200	200	200	200	200	200	200	200	200	D1514
12.	Sulfur Content, %, max	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	D1619
13.	Transmittance of Toluene Extract, %, min	75	75	85	85	70	80	70	85	85	80	75	80	D1618
14.	Automated Individual Pellet Hardness, g	10÷50	10÷50	10÷50	10÷50	10÷50	10÷50	10÷50	10÷50	10÷50	10÷50	10÷50	10÷50	D5230
15.	Pour Density Pelleted, Carbon Black, kg/m <sup>3</sup> , min	330	310	410	350	320	310	330	340	330	340	390	480	D1513
16.	Fines Content, %, max hopper packing	7 15	7 15	7 15	7 15	7 15	7 15	7 15	7 15	7 15	7 15	7 15	7 15	D1508

*NOTE: \* - quality parameters that are determined on the consumer's request.*