

List of Carbon Black from origin of China, Shanxi Province

No.	Name Grade Items	N115		N220		N234		N326	
		A grade	B grade	A grade	B grade	A grade	B grade	A grade	B grade
1	iodine adsorption value g/kg	160±6	160±10	121±5	121±7	120±5	120±7	82±5	82±7
2	DBP adsorption value 10 ⁻⁵ m ³ /kg	113±5	113±7	114±5	114±7	125±5	125±7	72±5	72±7
3	compression DBP absorption value 10 ⁻⁵ m ³ /kg	92-102	89-105	93 ~ 103	90 ~ 106	97 ~ 107	94 ~ 110	64 ~ 72	62 ~ 74
4	CTAB adsorption surface area 10 ³ m ² /kg	122-134	119-137	105 ~ 117	102 ~ 120	113 ~ 125	110 ~ 128	77 ~ 89	74 ~ 92
5	STSA surface area 10 ³ m ² /kg	124±5	124±9	106±5	106±9	112±5	112±9	76±5	76±9
6	NSA surface area 10 ³ m ² /kg	131-143	127-147	114 ~ 124	112 ~ 126	114 ~ 124	112 ~ 126	73 ~ 83	71 ~ 85
7	Color intensity %	118-128	115-131	111 ~ 121	108 ~ 124	118 ~ 128	115 ~ 131	106 ~ 116	103 ~ 119
8	heating loss %	3.0		2.5		2.5		2.5	
9	ash %	0.5	0.7	0.5	0.7	0.5	0.7	0.5	0.7
10	45μm sieve residue %	0.050	0.100	0.050	0.100	0.050	0.100	0.050	0.100

11	500µm sieve residue %	0.0010		0.0010		0.0010		0.0010	
12	impurities	Nil		Nil		Nil		Nil	
13	Pour density kg/m ³	345±40		355±40		320±40		455±40	
14	fine powder content %	10		10		10		10	
15	300% 300% stretching stress Mpa (IRB7#) Mpa	-3.1±1.0	-3.1±1.6	-2.0±1.0	-2.0±1.6	-0.1±1.0	-0.1±1.6	-3.6±1.0	-3.6±1.6
16	300% 300% stretching stress Mpa (SRB3#) Mpa	-3.4±1.0	-3.4±1.6	-2.3±1.0	-2.3±1.6	-0.4±1.0	-0.4±1.6	-3.9±1.0	-3.9±1.6
No	Names	N347		N351		N375		N539	
	Items	A grade	B grade	A grade	B grade	A grade	B grade	A grade	B grade
1	Iodine adsorption value g/kg	90±5	90±7	68±5	68±7	90±5	90±7	43±4	43±6
2	DBP adsorption value 10 ⁻⁵ m ³ /kg	124±5	124±7	120±5	120±7	114±5	114±7	111±5	111±7
3	compression DBP absorption value 10 ⁻⁵ m ³ /kg	94 ~ 104	91 ~ 107	90 ~ 100	87 ~ 103	91 ~ 101	88 ~ 104	76 ~ 86	73 ~ 89
4	CTAB adsorption surface area 10 ³ m ² /kg	81 ~ 93	78 ~ 96	67 ~ 79	64 ~ 82	90 ~ 102	87 ~ 105	36 ~ 46	34 ~ 48

5	STSA surface area $10^3 \text{ m}^2/\text{kg}$	83±5	83±9	70±5	70±9	91±5	91±9	38±5	38±9
6	NSA surface area $10^3 \text{ m}^2/\text{kg}$	80 ~ 90	78 ~ 92	66 ~ 76	64 ~ 78	88 ~ 98	86 ~ 100	35 ~ 43	33 ~ 45
7	Color intensity %	100 ~ 110	97 ~ 113	95 ~ 105	92 ~ 108	109 ~ 119	106 ~ 122	—	
8	heating loss %	2.5		2.5		2.5		1.5	
9	ash %	0.5	0.7	0.5	0.7	0.5	0.7	0.5	0.7
10	45μm sieve residue %	0.050	0.100	0.050	0.100	0.050	0.100	0.050	0.100
11	500μm sieve residue %	0.0010		0.0010		0.0010		0.0010	
12	impurities	none		none		none		none	
13	Pour density kg/m^3	335±40		345±40		345±40		385±40	
14	fine powder content %	10		10		10		10	
15	300% 300% stretching stress Mpa (IRB7#) Mpa	+0.5±1.0	+0.5±1.6	+1.1±1.0	+1.1±1.6	+0.4±1.0	+0.4±1.6	-1.3±1.0	-1.3±1.6
16	300% 300% stretching stress Mpa (SRB3#) Mpa	+0.2±1.0	+0.2±1.6	+0.8±1.0	+0.8±1.6	+0.1±1.0	+0.1±1.6	-1.6±1.0	-1.6±1.6