

## **Carbon Black**

### *Typical Characteristics*

The specification chart below highlights some of the more popular grades of Carbon Black. If the grade you are looking for is not listed below, please contact us.

	Unit	N220	N330	N339	N550	N660
Iodine Absorption Number		121 +/- 5	82 +/- 5	90 +/- 5	43 +/- 5	36 +/- 5
CTAB Surface Area	m <sup>2</sup> /g	111 +/- 7	83 +/- 6	95 +/- 6	42 +/- 5	36 +/- 5
DBP Absorption Number	cm <sup>3</sup> /100g	114 +/- 5	102 +/- 5	120 +/- 5	121 +/- 5	90 +/- 5
PH Value		6 - 9	6 - 9	6 - 9	6 - 9	6 - 9
Heating Loss at 125°C	% max	1.0	1.0	1.0	1.0	1.0
Ash	% max	0,45	0,45	0,45	0,45	0,45
Sieve Residue	max	0,1 - 0,001	0,1 - 0,001	0,1 - 0,001	0,1 - 0,001	0,1 - 1,001
Sulfur Content	% max	1,1	1,1	1,1	1,1	1,1
Toluene Discoloration	% min	90	90	90	85	80
Individual Pellet Crash Strength		10 - 50	10 - 50	10 - 50	10 - 50	10 - 50
Pour Density Pelleted	kg/m <sup>3</sup>	330	340	320	330	375
Fine Content	% max	15	15	15	15	15

	Unit	N762	N772	N744	N990	N991
Nitrogen Surface Area	m <sup>2</sup> /g	30 +/- 5	30 +/- 5	30 +/- 5	9 - 11	9 - 11
CTAB Surface Area	m <sup>2</sup> /g	25 - 33	29 - 37	25 - 33	7	7
Average Particle Size	nm	60 - 100	60 - 100	60 - 100	> 230	> 230
DHB Absorption	cm <sup>3</sup> /100g	65 +/- 4	65 +/- 5	72 +/- 4	35 +/- 5	35 +/- 5
Heating Loss	% max	0.3	0.3	0.3	0.01	0.01
Sieve Residue 35 mesh 325 mesh	% max	0.0001 0.005	0.0001 0.005	0.0001 0.005	0.0001 0.002	0.0001 0.002
pH Value		9 - 11	9 - 11	9 - 11	7 - 11	7 - 11
Sulfur Content	% max	0.1	0.1	0.1	0.1	0.1
Ash Content	% max	0.5	0.4	0.5	0.5	0.5
Bulk Density	kg/m <sup>3</sup>	480	460	490	550	550
Toluene Transmission	% min	70	70	70	80	80
Iodine Absorption Number	mg/g	27 +/- 4	28 +/- 4	29 +/- 4	8 +/- 4	8 +/- 4
Fine Content	% max	7	7	7	8	-