BUDCON INTERNATIONAL
SPECIALTY CARBON · BENGALURU

2026 — 2027 EDITION



PRODUCT CATALOGUE

Specialty Carbon

Circular · Conductive · Concentrated

Circular
Recovered Carbon Black
Powder · Pellets

Conductive
Conductive Carbon Black
Single-Walled Carbon Nanotubes

Concentrated
Carbon Black Noodles
Hyper · Double · Master

www.budconinternational.in · +91 90905 14544

BUDCON INTERNATIONAL

Three families of functional carbon.

Budcon International is a Bengaluru-based specialty carbon materials company. Our range covers recovered carbon black, conductive carbon and single-walled carbon nanotubes, and carrier-free black noodles — produced at partner manufacturing facilities in Pune and Vadodara and supplied to rubber, plastics and cable manufacturers across India and export markets.

01 · CIRCULAR

Recovered Carbon Black

Semi-reinforcing black recovered from end-of-life tyres, for rubber goods, masterbatch and recycled compounds.

65–75 m²/g NSA · **50–60** tint
Powder · Pellets

02 · CONDUCTIVE

Conductive CB & SWCNT

Conductive carbon black and single-walled carbon nanotubes for polymer compounds and lithium-ion battery electrodes.

Polymer & **Li-ion battery** grades
ESD to conductive range

03 · CONCENTRATED

Carbon Black Noodles

Carrier-free black concentrate for compounders who granulate in-house — one product across many polymers.

About 30 % lower cost than masterbatch
Hyper · Double · Master

PRODUCTION NETWORK

Produced to Budcon specification, with a Certificate of Analysis for every lot.

Pune
Recovered carbon black

Vadodara
Carbon black noodles

Qualified partners
Conductive CB · SWCNT

Quality

Certificate of Analysis with every consignment, tested to ASTM methods. Lot identity retained through despatch for full traceability.

Technical support

Grade selection against your formulation, polymer and process. Trial quantities for qualification on your own line.

Supply

Pan-India supply with export documentation. 20 / 25 kg PP bags or 500 kg bulk bags; palletised on request.

INDUSTRIES SERVED

- Rubber compounding
- Tread rubber & retreading
- Moulded & extruded rubber goods
- Plastics & masterbatch
- Recycled polymer compounds
- Wire & cable
- ESD & electronics packaging
- Lithium-ion batteries
- Pipes, tanks & moulded parts

01 · CIRCULAR

Recovered Carbon Black

Semi-reinforcing carbon black for rubber and plastics · Powder & pellets

65–75 m²/g	95–105 cm³/100 g	50–60	15–18 %
NSA surface area	OAN structure	Tint strength (N330 = 100)	Ash content

TYPICAL PROPERTIES

PROPERTY	VALUE	METHOD
NSA / BET surface area	65–75 m²/g	D6556
CTAB surface area	~68 m²/g	–
Iodine adsorption number	~79 mg/g	D1510
OAN, oil absorption	95–105 cm³/100 g	D2414
Tint strength (N330 = 100)	50–60	D3265

PROPERTY	VALUE	METHOD
Ash content	15–18 %	D1506
Moisture, max	1.5 %	D1509
Sulphur, max	2.5 %	D1619
LDPE dispersion	Pass	–
Forms	Powder · Pellets	–

Test methods per ASTM. Packing: 20 / 25 kg PP bags · 500 kg bulk bags.

WHERE RCB IS USED

Tread rubber
Retreading & precured tread

Moulded rubber
Bushes, mounts, technical parts

Conveyor belts
Covers & carcass compounds

Hoses & extrusions
Profiles, tubing, strips

Gaskets & seals
Moulded & extruded seals

Black masterbatch
Cost-optimised black

Recycled compounds
RP granules, reprocessed polymer

Pipes & profiles
Extruded products

Typical values. The Certificate of Analysis issued per lot is the definitive specification.

02 · CONDUCTIVE · POLYMERS

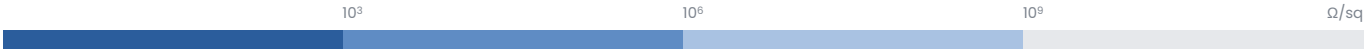
Conductive Carbon Black

For antistatic, ESD, semi-conductive and conductive polymer compounds

GRADE DATA

CHARACTERISTIC	UNIT	CL-08	EH-02	METHOD
BET surface area	m^2/g	768	255	ASTM D6556
Iodine number	mg/g	742	235	ASTM D1510
DBP absorption	cc/100 g	350	—	ASTM D2414
Heating loss	wt %	1.5	0.9	ASTM D1509
Sieve residue, #325 / #35	ppm	22 / 0	22 / 0	ASTM D1514
pH	—	7.2	7.2	ASTM D1512
Positioning		High structure — conductivity at low loading	Economical antistatic & ESD	JE6900 series and further grades to specification

RESISTIVITY RANGES



Conductive
< 10^3 Ω/sq
EMI shielding · EV battery parts · conductive flooring

Semi-conductive
10^3–10^6 Ω/sq
Cable semicon layers · sheathing · ATEX pipes

Antistatic / ESD
10^6–10^9 Ω/sq
Electronic packaging · trays · FIBC Type C

Insulating
> 10^9 Ω/sq
Standard compounds

Indicative surface resistivity ranges. Achieved values depend on polymer, loading, dispersion and process.

WHERE CONDUCTIVE CARBON IS USED

SEMI-CON
Cable semicon
Conductor & insulation screens

SEMI-CON
Cable sheathing
Semi-conductive jackets

SEMI-CON
ATEX & fuel pipes
Static-safe fluid handling

ESD
ESD packaging
Electronics trays & carriers

ESD
FIBC Type C
Groundable bulk bags

ESD
Antistatic films
Sheets, liners, packaging

CONDUCTIVE
EMI shielding
Housings & enclosures

CONDUCTIVE
Conductive flooring
Cleanrooms, ESD areas

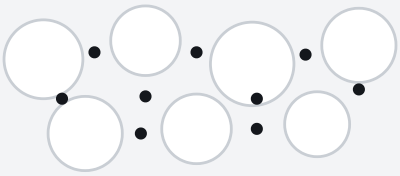
Grade data as tested per COA. Packing: 20 / 25 kg PP bags · 500 kg bulk bags.

02 · CONDUCTIVE · ENERGY STORAGE

Battery Conductive Additives

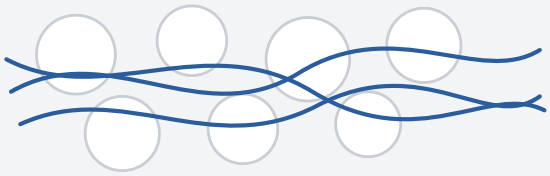
Conductive carbon black & single-walled carbon nanotubes for Li-ion electrodes

CONDUCTIVE CARBON BLACK



Point-to-point network fills gaps between particles

SINGLE-WALLED CARBON NANOTUBES



Long-range bridges flexible, low addition

CONDUCTIVE CARBON BLACK

ITEM	UNIT	SP13	SP42
Application	–	Cathode & anode	Cathode & anode
NSA	m²/g	65 ± 7	140 ± 10
DBP	ml/100 g	200 ± 20	150 ± 10
Ash content	wt %	< 0.1	< 0.1

Stable conductivity · Good dispersibility · Low ash · Low grit · Low metal content

SWCNT DISPERSIONS

ITEM	UNIT	SC10	SA40
Application	–	Cathode	Anode
SWCNT content	wt %	1.0 ± 0.1	0.4 ± 0.04
Total solid content	% mass	3.0 ± 0.3	1.0 ± 0.1
Dispersing agent	wt %	2.0	0.6
Solvent	wt %	97.0	99.0
Viscosity	cps	< 5,000	< 2,000

High conductivity · High surface area · Low metal content

ELECTRODE SYSTEMS

LFP cathode
SP13 · SC10

NCM / NCA cathode
SP13 · SC10

Graphite anode
SP13 · SP42

Silicon / SiO_x anode
SP42 · SA40

Typical values. Samples and full technical data sheets on request.

03 · CONCENTRATED

Carbon Black Noodles

Carrier-free black concentrate · In general about 30 % lower cost than masterbatch · Made to order

GRADE 1
HYPER PVC
For PVC — rigid and flexible.

GRADE 2
DOUBLE GENERAL
General purpose — polyolefins, styrenics and more.

GRADE 3
MASTER PREMIUM
Premium — widest polymer range, deepest and cleanest black.

TYPICAL PROPERTIES

PROPERTY	UNIT	HYPER	DOUBLE	MASTER	METHOD
Relative tint strength (N330 = 100)	%	100	100	110	ASTM D3265
Colour tone reference	–	≈ N330	≈ N330	≈ N330	–
Bulk (pour) density	g/cm³	0.55–0.65	0.55–0.65	0.55–0.65	ASTM D1513
Moisture / loss on heating (125 °C)	% wt	≤ 2.0	≤ 2.0	≤ 2.0	ASTM D1509
Ash content	% wt	≤ 2.0	≤ 2.0	≤ 2.0	ASTM D1506
Sieve residue, 325 mesh	ppm	≤ 50	≤ 50	≤ 35	ASTM D1514
pH	–	6.5–7.5	6.5–7.5	6.5–7.5	ASTM D1512
Noodle diameter × length	mm	3–4 × 25–50			–

Each grade is built from a blend of carbon blacks selected for the polymer and the finished part. The blend, and therefore the price, varies by grade.

NOODLES VS. BLACK MASTERBATCH

	CARBON BLACK NOODLES	BLACK MASTERBATCH
Cost	In general about 30 % lower	Reference
Carrier resin	None	Fixed polymer carrier
Polymer coverage	Broad — one product, many polymers	Resin-specific
Formulation control	Stays with you	Set by the supplier
Process requirement	In-house compounding step	Direct use

Typical values. Any grade can be customised for polymer, shade, black loading and process.

03 · CONCENTRATED

Compatibility & use

Carbon black noodles

POLYMER COMPATIBILITY

GRADE	PP	HDPE	LD / LLDPE	PVC	NYLON	ABS	HIPS	PS	EVA	PET	PU / TPU	FRP
Hyper	•	•	•	•	•	•	•	•	•	—	—	—
Double	•	•	•	—	•	•	•	•	•	•	•	○
Master	•	•	•	—	•	•	•	•	•	•	•	○

• Recommended ○ Under advice — Not recommended

Always confirm by trial for the specific formulation.

TWO-STAGE USE

STEP 1
Mix
Noodles + base polymer (PP, HDPE, LDPE, ABS, PS…)

→

STEP 2
Granulate
Compounding / granulating extruder → black granules

→

STEP 3
Use
Pipe, film, sheet, injection or blow moulding

Dosage

2–4 % by weight for a standard black; up to about 5 % for a deeper black or UV protection. Set the final level by trial.

Customisation

Tailored to polymer, shade, black loading and process — one product can replace several masterbatch types.

Packing & storage

25 kg bags; palletised on request. Store cool, dry, out of direct sun. Shelf life 24 months, sealed.

WHERE NOODLES ARE USED

Water storage tanks
Tanks & containers

HDPE pipes
Via compounded granules

Injection moulding
Household & industrial

Automotive parts
Moulded components

Packaging films
Blown & cast film

Blow moulding
Containers & drums

Engineering plastics
Nylon & ABS compounds

Wire & cable
Jacketing compounds

ALSO SUPPLIED

Furnace & compliance grades

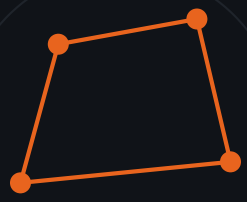
N220 | N234 | N330 | N375 | N550 | N660

ASTM D1765 furnace grades. Low-PAH and REACH-compliant grades supplied to specification on request.

BI **BUDCON INTERNATIONAL**
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Get in touch.

Samples, technical data sheets and quotations on request.



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All specifications are typical values provided for information only and do not constitute a warranty. The Certificate of Analysis issued with each lot is the definitive specification for that lot. Specifications are subject to change without notice. All sales are subject to Budcon International's standard terms and conditions.

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