BI **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

BI-CAT-2627-001

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BUDCON INTERNATIONAL

Three families of functional carbon.

Budcon International is a Bengaluru-based specialty carbon materials company focused on functional carbon solutions for rubber, plastics, wire & cable, electronics and energy-storage applications.

01 · CIRCULAR

Recovered Carbon Black

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

~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.

50–60 % carbon
Hyper · Double · Master

PRODUCT & QUALITY

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

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.

Global Supply

Domestic and international supply with complete 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

~75 m^2/g
NSA surface area

~95 $cm^3/100\ g$
OAN structure

50–60
Tint strength (N330 = 100)

≤ 1.5 %
Moisture

TYPICAL PROPERTIES

PROPERTY	VALUE	METHOD
NSA / BET surface area	~ 75 m^2/g	D6556
CTAB surface area	~ 68 m^2/g	—
Iodine adsorption number	~ 79 mg/g	D1510
OAN absorption	~ 95 $cm^3/100\ g$	D2414
Tint strength (N330 = 100)	50 – 60	D3265

PROPERTY	VALUE	METHOD
Ash content	Per lot COA	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

02 · CONDUCTIVE · POLYMERS

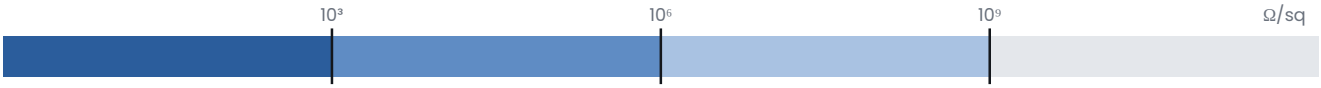
Conductive Carbon Black

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

GRADE DATA

CHARACTERISTIC	UNIT	CL-08	EH-02	METHOD
BET surface area	m²/g	768	255	ASTM D6556
Iodine number	mg/g	742	235	ASTM D1510
DBP absorption	cc/100 g	350	—	ASTM D2414
Heat 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
< 10³ Ω/sq
EMI shielding · EV battery parts · conductive flooring

Semi-conductive
10³ – 10⁶ Ω/sq
Cable semicon layers · sheathing · ATEX pipes

Antistatic / ESD
10⁶ – 10⁹ Ω/sq
Electronic packaging · trays · FIBC Type C

Insulating
> 10⁹ 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

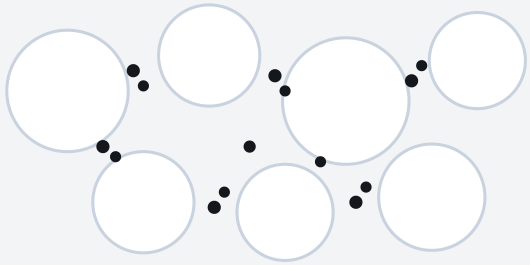
Grade data as tested per COA. Packing: 20 / 25 kg PP bags · 500 kg bulk bags.

02 · CONDUCTIVE · ENERGY STORAGE

Battery Conductive Additives

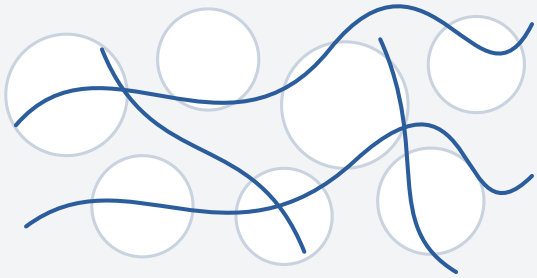
Conductive carbon black & single-walled carbon nanotubes for Li-ion electrodes

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 / SiOx anode
SP42 · SA40

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

03 · CONCENTRATED

Carbon Black Noodles

Carrier-free black concentrate · 50–60 % carbon · Made to order

GRADE 1
HYPER 50% CB
For PVC — rigid and flexible.

GRADE 2
DOUBLE 50% CB
General purpose — polyolefins, styrenics and more.

GRADE 3
MASTER 60% CB
Premium — widest polymer range, deepest and cleanest black.

TYPICAL PROPERTIES

PROPERTY	UNIT	HYPER	DOUBLE	MASTER	METHOD
Carbon black content	% wt	50	50	60	In-house
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		—

NOODLES VS. BLACK MASTERBATCH

	CARBON BLACK NOODLES	BLACK MASTERBATCH
Carrier resin	None	Fixed polymer carrier
Carbon content	50 – 60 %	Typically 25 – 40 %
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, carbon 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. Higher levels may be evaluated where deeper black or additional UV protection is required. Final dosage should be established by trial.

Customisation

Tailored to polymer, shade, carbon 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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