



BUDCON INTERNATIONAL

CARBON MATERIALS · BENGALURU, INDIA

PRODUCT CATALOGUE

CARBON BLACK PRODUCT PORTFOLIO

2025 – 2026 Edition

PRODUCTS COVERED

- 01 · Recovered Carbon Black (rCB) — Powder & Pellets
- 02 · Virgin Carbon Black — N220 to N660 Grades
- 03 · Carbon Black Noodles — All Grades
- 04 · Specialty Grades — Conductive & Antistatic

CERTIFICATIONS & COMPLIANCE

TÜV SÜD

REACH / ROHS

IRMRA

PAH CERTIFIED

ASTM D1765

GRADE COMPLIANT

LDPE

DISPERSION PASS

SVHC

COMPLIANT

Document No: BI-CAT-2526-001

Issue Date: January 2026 · Valid until December 2026

All specifications subject to change without notice. COA issued per shipment.

www.BudconInternational.in

+91 90905 14544

BUDCON INTERNATIONAL

ABOUT OUR COMPANY

Specialised carbon black supply – Bengaluru, India

COMPANY OVERVIEW

Budcon International is a specialised carbon black materials company supplying recovered carbon black (rCB), virgin furnace grades, carbon black noodles, and specialty conductive grades to manufacturers across India and export markets.

Headquartered in Bengaluru, Karnataka, we operate as an authorised channel partner with direct access to certified material sources. Every shipment is accompanied by a full Certificate of Analysis, MSDS, and applicable compliance documentation.

OPERATIONAL PARAMETERS

| | |
|--------------------|--|
| Headquarters | Bengaluru, Karnataka, India |
| Business Type | Specialised Carbon Materials Supply |
| Product Categories | 4 (rCB, Virgin CB, Noodles, Specialty) |
| Supply Basis | Direct channel from manufacturer |
| Documentation | COA, MSDS, REACH, PAH per lot |
| Packaging Options | 25 kg bags · 500 kg big bags · Bulk |
| Market Reach | India + export-cleared documentation |

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PRODUCT CATEGORIES

75.3m²/g

RCB NSA/BET SURFACE AREA

N220–N660

6 ASTM Grades

FURNACE BLACK RANGE STOCKED

TÜV

REACH · ROHS PAH CERTIFIED

PRODUCT RANGE SUMMARY

| # | PRODUCT | GRADES / FORMS | KEY APPLICATION | CERTIFICATION |
|----|------------------------------|--|-------------------------------|----------------------------|
| 01 | Recovered Carbon Black (rCB) | Powder & Pellets · NSA ~75.3 m ² /g | Rubber, masterbatch, plastics | TÜV REACH/RoHS · IRMRA PAH |
| 02 | Virgin Carbon Black | N220, N234, N330, N375, N550, N660 | Tyres, rubber goods, cables | ASTM D1765 |
| 03 | Carbon Black Noodles | Regular · Commercial · Super · Hyper · Double · Master · Premium Black | Plastics, pipes, packaging | LDPE Dispersion Pass |
| 04 | Specialty Grades | Conductive CB · Antistatic CB · Graphene (2026) | ESD, EMI, EV applications | On request |

INDUSTRY SECTORS SERVED

TYRE & RUBBER

PLASTICS & MASTERBATCH

INKS & COATINGS

CABLES & WIRES

CONVEYOR BELTS

GASKETS & SEALS

ELECTRIC VEHICLES

ELECTRONICS & SEMICONDUCTORS

PIPES & PROFILES

PRODUCT 01 · RECOVERED CARBON BLACK

RCB — RECOVERED CARBON BLACK

Produced via controlled pyrolysis of end-of-life tyres · Available as Powder & Pellets

TECHNICAL SPECIFICATION — RCB

| PARAMETER | TYPICAL VALUE | TEST METHOD |
|------------------------------------|--|------------------|
| PHYSICAL PROPERTIES | | |
| NSA / BET Surface Area | ~75.3 m ² /g | ASTM D6556 |
| CTAB Surface Area | ~68 m ² /g | Est. per D6556 |
| Ash Content (max) | ≤ 15.0 % | ASTM D1506 |
| Moisture Content (max) | ≤ 1.5 % | ASTM D1509 |
| Sulfur Content | ≤ 2.5 % | ASTM D1619 |
| DISPERSION & COMPLIANCE | | |
| LDPE Dispersion Test | Pass ✓ | Verified batch |
| PAH Compliance | Non-Detectable (IRMRA) ✓ | IRMRA Protocol |
| SVHC (REACH) | Compliant ✓ | REACH Annex XVII |
| REACH / RoHS | TÜV SÜD Certified ✓ | TÜV SÜD |
| PRODUCT & PACKAGING | | |
| Available Forms | Powder · Pellets | — |
| Comparable Grade | N330 class (performance profile) | ASTM D1765 |
| Packaging | 25 kg PP bags · 500 kg big bags · Bulk | — |

CIRCULAR ECONOMY CREDENTIAL

rCB is produced from end-of-life tyres (ELTs) via controlled pyrolysis. Lifecycle assessment confirms approximately 70% lower CO₂ emissions versus equivalent virgin furnace black. Supports customer Scope 3 emission reduction commitments. Source material: post-consumer ELTs, not industrial scrap.

PERFORMANCE VS. VIRGIN N330

| PROPERTY | RCB | N330 |
|---------------------------|------------|----------|
| NSA (m ² /g) | ~75 | ~78 |
| Ash (%) | ≤15 | ≤0.5 |
| Reinforcement | Moderate | High |
| CO ₂ Footprint | ~70% lower | Baseline |
| Cost Position | Lower | Higher |
| PAH Status | ND (IRMRA) | Standard |

RECOMMENDED APPLICATIONS

RUBBER COMPOUNDING

PLASTIC MASTERBATCH

NON-TYRE RUBBER GOODS

ANTISTATIC MASTERBATCH

GASKETS & SEALS

PIPES & PROFILES

CONVEYOR BELTS

PIGMENT REPLACEMENT

PRODUCT 02 · FURNACE GRADE VIRGIN CARBON BLACK

VIRGIN CARBON BLACK

ASTM D1765 compliant · N220 through N660 · Pelleted furnace grade

GRADE SPECIFICATIONS — TYPICAL VALUES PER ASTM D1765

| ASTM GRADE | APPLICATION CLASS | NSA (M ² /G) D6556 | CTAB (M ² /G) EST. PER D6556 | DBP ABS. (CM ³ /100G) D2414 | IODINE NO. (MG/G) D1510 | ASH (% MAX) | PH | PRIMARY USE |
|------------|--------------------------|-------------------------------|---|--|-------------------------|-------------|-----|--|
| N220 | Hard Black — Tread | 114 | 111 | 114 | 121 | 0.45 | 7–9 | Tyre treads · high abrasion resistance |
| N234 | Hard Black — Tread | 119 | 113 | 125 | 123 | 0.45 | 7–9 | Tyre treads · wet grip performance |
| N330 | Hard Black — General | 84 | 82 | 102 | 82 | 0.45 | 6–9 | Tread/carcass · hoses · belts |
| N375 | Hard Black — General | 92 | 90 | 114 | 90 | 0.45 | 6–9 | Tread/carcass · high modulus |
| N550 | Soft Black — Semi-reinf. | 42 | 40 | 121 | 43 | 0.45 | 6–9 | Flexible goods · cable jackets · extrusion |
| N660 | Soft Black — Semi-reinf. | 36 | 34 | 90 | 36 | 0.45 | 6–9 | Sidewalls · seals · inks · coatings |

NSA SURFACE AREA — VISUAL COMPARISON

| | | |
|------|--|-----------------------|
| N234 | | 119 m ² /g |
| N220 | | 114 m ² /g |
| N375 | | 92 m ² /g |
| N330 | | 84 m ² /g |
| N550 | | 42 m ² /g |
| N660 | | 36 m ² /g |

Higher NSA = finer particle size = higher reinforcement & abrasion resistance.

GENERAL PRODUCT SPECIFICATIONS

| | |
|------------------------|-----------------------|
| CAS Number | 1333-86-4 |
| Production Method | Furnace Black Process |
| Form | Pelleted / Granular |
| pH Range | 6.0 – 9.0 |
| Ash Content (max) | ≤ 0.45 % |
| Sulfur Content (max) | ≤ 1.1 % |
| Heating Loss at 125°C | ≤ 1.0 % |
| Toluene Discolouration | ≥ 85 % |
| ASTM Classification | ASTM D1765 |

APPLICATIONS

PASSENGER & TRUCK TYRES

CONVEYOR BELTS

RUBBER HOSES

CABLE JACKETING

MOULDED RUBBER GOODS

PRODUCT 03 · CARBON BLACK NOODLES — ALL GRADES

CARBON BLACK NOODLES

Carrier-resin-free colourant · Universal polymer compatibility · 7 grades

WHAT ARE CARBON BLACK NOODLES?

Carbon black noodles are an extruded, carrier-resin-free form of concentrated carbon black pigment. Unlike masterbatch, they contain no polymer carrier — resulting in universal compatibility across almost all thermoplastic polymer types. They are non-dusty, easy to handle, and effective at lower loading levels than standard masterbatch concentrates.

TECHNICAL PARAMETERS

| | |
|------------------------|-----------------------------------|
| Form | Extruded noodle / rod |
| Carrier Resin | None (resin-free) |
| Typical Carbon Content | > 60 % |
| Diameter | ~2-4 mm typical |
| Length | ~4-10 mm typical |
| Bulk Density | ~0.4-0.6 g/cm ³ |
| Moisture | ≤ 1.0 % |
| Recommended Loading | 0.5 - 3.0 % (application dep.) |
| Packaging | 25 kg bags |

NOODLES VS. MASTERBATCH — KEY DIFFERENCES

| PARAMETER | CB NOODLES | BLACK MASTERBATCH |
|-----------------------|------------|--------------------|
| Carrier Resin | None | Fixed polymer type |
| Polymer Compatibility | Universal | Resin-specific |
| Typical CB Loading | >60% | 25-40% |
| Bloom Risk | None | Possible |

GRADE PORTFOLIO

| GRADE NAME | COMPATIBLE POLYMERS (INDICATIVE) |
|---------------|--|
| Regular | PP only |
| Commercial | PP · HDPE · LD/LLDPE |
| Super | PP · HDPE · LD/LLDPE · Nylon · HIPS · EVA · PU/TPU |
| Hyper | All above + PVC · ABS · PS |
| Double Black | Hyper range + FRP |
| Master Black | Extended broadest compatibility |
| Premium Black | Full polymer range · Highest performance |

POLYMER COMPATIBILITY MATRIX

| GRADE | PP | HDPE | LD/LLPE | NYLON | ABS | PVC | PET | EVA | FRP |
|------------|----|------|---------|-------|-----|-----|-----|-----|-----|
| Regular | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Commercial | ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ |
| Super | ● | ● | ● | ● | ○ | ○ | ○ | ● | ○ |
| Hyper | ● | ● | ● | ● | ● | ● | ○ | ● | ○ |
| Premium | ● | ● | ● | ● | ● | ○ | ● | ● | ● |

● Recommended ○ Not recommended · Always test per specific formulation.

APPLICATIONS

| | | |
|---------------------|-----------------|----------------------|
| WATER STORAGE TANKS | HDPE PIPES | INJECTION MOULDING |
| AUTOMOTIVE PARTS | PACKAGING FILMS | ENGINEERING PLASTICS |
| CABLES & WIRES | | |

PRODUCT 04 · SPECIALTY GRADES · SOURCED TO SPECIFICATION

SPECIALTY GRADES

Conductive & antistatic carbon black · Graphene (emerging 2026) · Sourced on request

SOURCING NOTE — SPECIALTY GRADES

Unlike our stocked products, specialty grades are sourced specifically for the customer requirement. Please share your target specification (surface area, OAN/DBP structure, target resistivity, polymer matrix, end application) and our technical team will identify the appropriate material and arrange sampling. Lead times vary by grade and quantity.

4.1 CONDUCTIVE & ANTISTATIC CARBON BLACK

High-structure, high-surface-area carbon black grades used to impart electrical conductivity or electrostatic dissipation (ESD) properties to polymer compounds. Suitable where standard furnace grade N330/N550 cannot achieve the required volume resistivity.

RESISTIVITY GRADE CLASSIFICATION

| GRADE TYPE | VOLUME RESISTIVITY | TYPICAL APPLICATION |
|------------------|--------------------------------|---|
| Antistatic / ESD | $10^6 - 10^9 \Omega/\text{sq}$ | Electronic packaging, semiconductor trays |
| Semi-Conductive | $10^3 - 10^6 \Omega/\text{sq}$ | Cable layers, ATEX-rated pipes |
| Conductive | $< 10^3 \Omega/\text{sq}$ | EMI shielding, EV battery components |

TYPICAL MATERIAL PARAMETERS (REFERENCE)

| | |
|-----------------------|---|
| NSA Range | 200 – 1,000 m ² /g (grade dep.) |
| DBP Absorption | High structure (OAN >160 cm ³ /100g) |
| Primary Particle Size | 10 – 50 nm |
| Form | Powder (typically) |

APPLICATIONS — CONDUCTIVE CB

ESD PACKAGING & TRAYS

EV BATTERY COMPONENTS

EMI SHIELDING

ATEX-RATED CONTAINERS

CONDUCTIVE FLOORING

SEMICONDUCTOR TRAYS

4.2 GRAPHENE EMERGING — 2026

Graphene is a single-atom-thick carbon allotrope with extraordinary intrinsic properties. As a nano-additive at sub-1% loadings, it simultaneously enhances electrical conductivity, thermal conductivity, mechanical strength, and gas barrier performance in polymer systems.

GRAPHENE — KEY MATERIAL PROPERTIES (REFERENCE VALUES)

| | |
|---------------------------|---|
| Structure | Single/few-layer hexagonal carbon lattice |
| Intrinsic Strength | ~130 GPa tensile strength |
| Electrical Conductivity | ~ 10^6 S/m (intrinsic) |
| Thermal Conductivity | ~5,000 W/m·K (monolayer) |
| Typical Loading (polymer) | 0.1 – 3.0 wt% |
| BET Surface Area | Up to 2,630 m ² /g (theoretical) |
| CAS Number | 7782-42-5 |

WHY GRAPHENE MATTERS FOR INDUSTRY

At nano-loadings below 1 wt%, graphene can improve impact strength, reduce permeability, and impart conductivity simultaneously — outcomes impossible with conventional carbon black grades. Target sectors: EV battery anodes, conductive inks, aerospace composites, high-barrier packaging films.

TARGET APPLICATIONS — GRAPHENE

EV BATTERY ANODES

CONDUCTIVE INKS

AEROSPACE COMPOSITES

HIGH-BARRIER FILMS

QUALITY ASSURANCE & COMPLIANCE

CERTIFICATIONS & DOCUMENTATION

Every shipment backed by COA, MSDS, REACH declaration, and applicable test certificates

APPLICABLE CERTIFICATIONS & COMPLIANCE STANDARDS

**TÜV SÜD — REACH / RoHS**

Independently verified compliance with EU REACH regulation (SVHC candidate list) and RoHS directive. Applies to our rCB product. Essential for export-oriented customers and EU-aligned supply chains.

**LDPE Dispersion Pass**

Confirmed LDPE dispersion test pass — assures homogeneous distribution of carbon black in polymer matrices. Critical for consistent colour development and mechanical properties in finished goods.

**IRMRA — PAH Certification**

Indian Rubber Manufacturers Research Association (IRMRA) certified compliance with Polycyclic Aromatic Hydrocarbon (PAH) safety standards. PAH result: non-detectable (ND) — confirms suitability for rubber and plastics end-use.

**ASTM D1765 — Grade Classification**

Virgin carbon black grades supplied per ASTM D1765 specification. Full standard test parameters (NSA, CTAB, DBP, Iodine No., Ash, pH) measured and reported in COA per shipment.

DOCUMENTATION SUPPLIED WITH EVERY SHIPMENT

| | |
|-----------------------------------|---------------------------|
| Certificate of Analysis (COA) | ✓ Every lot |
| Material Safety Data Sheet (MSDS) | ✓ On request |
| REACH SVHC Declaration | ✓ rCB product |
| RoHS Compliance Statement | ✓ rCB product |
| IRMRA PAH Certificate | ✓ rCB product |
| LDPE Dispersion Test Result | ✓ rCB product |
| ASTM Test Report | ✓ Virgin CB grades |
| Custom Test Reports | On request |

WHY BUDCON — SUPPLIER CREDENTIALS

01

Specialist Focus

Carbon black is our only business. Technical depth that a general chemicals trader cannot match.

02

Supply Reliability

Authorised channel partner with direct manufacturer access. Consistent supply, competitive pricing.

03

Data-Backed

Every shipment accompanied by measurable, independently verified quality parameters.

04

ESG-Aligned

rCB product supports Scope 3 reduction. CO₂ savings quantified and documented per tonne.

STORAGE & HANDLING GUIDELINES

Store in a cool, dry, covered area away from ignition sources and moisture. Use appropriate PPE per MSDS during handling. Pelletised, noodle, and granular forms offer significantly better dust management versus loose powder grades. Full MSDS documentation supplied on request. All products dispatched with compliant labelling per applicable Indian and export regulations.

01

**Recovered
Carbon Black**

Powder & Pellets
NSA ~75.3 m²/g
TÜV REACH/RoHS
IRMRA PAH Cert.

02

**Virgin
Carbon Black**

N220 · N234 · N330
N375 · N550 · N660
ASTM D1765
Pelleted furnace grade

03

**Carbon Black
Noodles**

Regular to Premium
7 grades available
Universal polymer
compatibility

04

**Specialty
Grades**

Conductive CB
Antistatic CB
Graphene (2026)
On request basis

OFFICE ADDRESS

Shop 9, Brigade Bricklane Road
Bellahali Cross
Bengaluru — 560 064
Karnataka, India

CONTACT

+91 90905 14544
info@budconinternational.in
internationalbudcon@gmail.com

WEBSITE

www.BudconInternational.in

DIRECTOR

Saurav Saket
DIRECTOR, BUDCON
INTERNATIONAL

CERTIFICATIONS:**TÜV SÜD REACH/RoHS****IRMRA PAH****ASTM D1765****LDPE Dispersion Pass****SVHC Compliant**

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