

Nanoman Biocleaner

Bio-based industrial cleaner and degreaser · Super concentrate

Spray it on, give it 30 seconds, wipe or rinse it off. Oil, grease, carbon and grime that normally need solvents, scrubbing or heat let go of the surface on their own, and one concentrate replaces a cupboard of separate cleaners.



1 L MAKES

Up to 1,000 L

of ready-to-use cleaner

COST IN USE

₹5.50–₹110

per litre, by dilution

CONTACT TIME

30 s – 2 min

then wipe or rinse

TRANSPORT

Not dangerous goods

no hazard pictograms

What it does

Nanoman Biocleaner is a water-based super concentrate built on bio-based surfactants. Diluted with water, it wets a dirty surface almost instantly, gets underneath oil, grease, soot and road grime, and lifts them off as a fine emulsion that wipes or rinses away. It works on mineral, synthetic, animal and vegetable oils and fats alike, so one product covers workshops, kitchens, floors, vehicles, rolling stock and plant.

The active surfactant is a bio-based polymer made by fermentation, supported by a betaine surfactant, sodium citrate and soda ash, with a trace of lemon oil. It contains no enzymes, no bacteria, no lye, no solvents, no chlorine and no PFAS, so it works the same way every time, cold or hot. It is not flammable and is not dangerous goods for transport.

Why cleaning feels different

Most cleaners make you do the work: scrub harder, use a stronger solvent, add heat. Biocleaner does it chemically. Its surfactants cut the surface tension of the cleaning water from about 72 mN/m (plain water) to 20–30 mN/m, so water that sits on grease becomes water that runs underneath it, lifts it and holds it in suspension until it is rinsed away.



Less effort

A short wait and a wipe do what used to take a brush and elbow grease.



Less time

No neutralising rinse and no waiting for solvent to flash off. Surfaces dry fast.



Fewer products

One concentrate, diluted differently, replaces degreaser, floor, kitchen, vehicle and glass cleaners.

Where to use it



Rolling stock

Coach exteriors and interiors, underframes, bogies, ends, steps, toilets, pantries



Workshops and plant

Machines, engine blocks, components, tools, presses, lines



Floors

Concrete, tiles, vinyl, epoxy, sealed stone; mop or scrubber-dryer



Warehouses

Forklift tyre marks, oil drips, traffic grime



Commercial kitchens

Ovens, grills, hoods, filters, stainless steel, drains



Vehicles and fleets

Bodies, engine bays, wheels, interiors



Fuel stations and yards

Oil and diesel stains on concrete and paving



Washrooms

Hospitals, hotels, offices, changing rooms



Carpets and upholstery

Spot cleaning and spray extraction



Façades and outdoors

Traffic film, algae and green growth



Farms

Stables, milking areas, silos, tractors



Ships and marine

Boats, decks, engine rooms, port facilities



Fire and smoke

Soot and smoke residue



Surface preparation

Before painting, disinfection or a Nanoman coating

What it removes

Mineral, synthetic, animal and vegetable oils and fats

Hydraulic oil, lubricants, cutting fluids, diesel, petrol

Carbon, soot and exhaust residue

Rubber and tyre marks

Limescale and mineral deposits

Polymer and wax floor finishes

Protein and food soiling

Traffic film, road grime, nicotine

Tea, coffee and wine stains

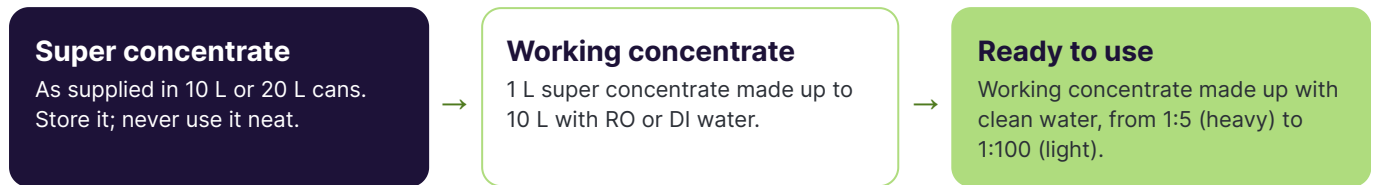
Fuel and diesel odours

✗ Not for

- Undiluted use: always dilute the super concentrate first
- Rust conversion: it cleans rusted metal but does not remove rust
- Long soaks of aluminium, magnesium and other light alloys
- Non-colour-fast fabrics, untreated wood and water-sensitive surfaces: test first
- Disinfection: it cleans and prepares surfaces, but is not a disinfectant

The dilution system

Biocleaner is supplied as a super concentrate, so you ship and store a fraction of the liquid you will actually use. Dilution is done in two steps.



Ratios are working concentrate to finished solution: 1:20 means 1 L of working concentrate made up to 20 L with water. Step 1 uses reverse-osmosis (RO) or deionised (DI) water, because minerals and chlorine in tap water reduce performance and storage life. Step 2 can use clean tap water. Mix only what you will use within 14 days.

Dilution guide (working concentrate in water)

Job	Dilution	How
Heavy degreasing: engines, machinery, ovens, grills, hood filters, thick oil and carbon	1:5	Spray or brush, 1–2 min, agitate, rinse
Rolling stock: underframes, bogies, coach ends and steps	1:5–1:10	Spray or foam, 1–2 min, brush, rinse
Rolling stock: coach exteriors, interiors, panels and fittings	1:10–1:20	Spray and wipe, or wash and rinse
Tyre marks and oil stains on concrete and industrial floors	1:5–1:10	Spray, agitate, pick up residue
Heavily soiled floors, wheels, stained carpets	1:10	Mop, brush or spray; rinse
Metal and stainless steel, plastics, vehicles inside and out	1:10–1:30	Spray or sponge; rinse or wipe dry
Soot and carbon after a fire	1:5–1:30	Test strength on a small area first
Kitchens: surfaces, stoves, floors and appliances	1:5–1:50	Rinse food-contact surfaces after
General cleaning: washrooms, surfaces, floors by mop	1:20	Mop, or spray and wipe
Farms: stables, livestock areas, silos, tractors, tools	1:5–1:30	Spray or pressure washer; rinse
Scrubber-dryers and floor machines	1:20–1:100	No defoamer needed
Carpets by spray extraction	1:20–1:80	Use warm water
Hot pressure washers and steam (up to 95 °C)	1:25–1:100	Heat boosts the effect on oil
Façades, algae and green growth	1:10–1:100	Test first
Light maintenance: windows, glass, tabletops	1:50–1:100	Spray and wipe; dry for no streaks
Fresh tea, coffee and wine spills on fabric	1:10	Apply at once, blot, rinse

Start weaker and strengthen if needed. The right dilution depends on how dirty and how sensitive the surface is.

How to use



1 • Dilute

Super concentrate 1:10 with RO/DI water, then to the job strength



2 • Apply

Spray, mop, foam, wash or soak



3 • Wait

30 seconds to 2 minutes; don't let it dry on



4 • Wipe or rinse

Damp microfibre cloth, or rinse with water



Spray and wipe

1:5–1:50

- 1 Spray onto the surface, or onto a cloth for delicate items.
- 2 Leave 30 s to 2 min; agitate heavy soiling with a pad.
- 3 Wipe with a damp microfibre cloth; rinse and dry for a sparkling finish.



Mop and scrubber-dryer

1:20–1:100

- 1 Mop water 1:20; scrubber-dryers 1:20 to 1:100.
- 2 Pre-spray tyre marks and oil stains at 1:5–1:10.
- 3 Scrub and pick up. No defoamer needed.



Pressure washer, foam, steam

1:25–1:100

- 1 Dose through the detergent inlet or foam lance; hot water up to 95 °C.
- 2 Apply bottom-up, leave 1–3 min.
- 3 Rinse top-down. Pre-spray heavy grease at 1:5–1:10.



Rolling stock

1:5–1:20

- 1 Underframes, bogies, ends and steps: 1:5–1:10, 1–2 min, brush, rinse.
- 2 Coach bodies: 1:10–1:20 by lance or sprayer, rinse.
- 3 Interiors and fittings: spray and wipe at 1:20.



Soak cleaning

1:5–1:10

- 1 Fill a tank or tray.
- 2 Immerse parts 5–10 min and agitate.
- 3 Rinse. Keep light-alloy parts to short soaks.



Carpets and upholstery

1:10–1:80

- 1 Spot stains: 1:10, apply at once, blot.
- 2 Spray extraction: 1:20–1:80 in warm water.
- 3 Rinse with water. Test colour-fastness first.

Food-contact surfaces: rinse with clean water after cleaning.

Before painting or coating: rinse and let the surface dry fully.

Good practice: gloves and safety glasses; avoid eye contact.



On an Indian Railways coach step: left, as the coach came in; right, the same step after cleaning with Biocleaner.

Economics

List price: **₹5,500 per litre of super concentrate + 18% GST**, supplied in 10 L or 20 L cans. Minimum order 100 L. Free delivery across India.



What 1 L of super concentrate makes, and what each litre costs

1:5	50 L	Heavy degreasing, ovens, engines, underframes	₹110 per litre
1:10	100 L	Heavily soiled floors, vehicles, metal	₹55 per litre
1:20	200 L	Everyday cleaning, mop water, washrooms	₹27.50 per litre
1:30	300 L	Vehicle washing, farms	₹18.30 per litre
1:50	500 L	Glass, windows, light cleaning	₹11 per litre
1:100	1,000 L	Scrubber-dryers, pressure washers, maintenance	₹5.50 per litre

What a fill costs

 ₹55 1 L spray bottle for vehicles and machinery, 1:10	 ₹11 1 L window and glass spray, 1:50	 ₹275 10 L mop bucket for a factory floor, 1:20	 ₹550 100 L scrubber-dryer tank, 1:100
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What an order makes

10 L can makes 500 L of heavy-duty degreaser or up to 10,000 L of light-duty cleaner	20 L can makes 1,000 L of heavy-duty degreaser or up to 20,000 L of light-duty cleaner	100 L order the minimum order, makes up to 1,00,000 L of ready-to-use cleaner
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Up to a thousand times less liquid to buy, ship, store and handle than ready-to-use cleaners, with no hazardous-goods storage or freight costs. Costs exclude GST and the water used for dilution; list-price examples, volume pricing on request.

Typical properties (super concentrate)

Property	Value
Appearance	Clear liquid, bright yellow to bright green; may turn slightly cloudy after opening
Odour	Faint, fresh (trace of lemon oil)
Active system	Bio-based fermentation surfactant, amphoteric betaine surfactant, sodium citrate, sodium carbonate
pH	10.8–11.3 (mildly alkaline); about 10 when diluted
Density at 20 °C	1.10–1.12 g/cm ³
Viscosity at 20 °C	300–600 mm ² /s
Surface tension (in use)	20–30 mN/m
Solubility	Fully miscible with water
Flash point	None: not flammable
Working temperature	Cold water up to 95 °C; steam compatible
Foaming	Low in machines; no defoamer needed
Free of	Enzymes, bacteria, lye, solvents, chlorine, PFAS

Typical values, not a specification.

Material compatibility

Compatible with painted and lacquered surfaces, stainless steel, plastics, rubber, glass, ceramics, concrete, sealed stone and most coatings at the recommended dilutions. Light alloys (aluminium, magnesium) are fine for normal cleaning; avoid immersing them for long periods. Always test on a hidden area first.

Safety

- Not classified as hazardous; no hazard pictograms. Not dangerous goods for road, rail, sea or air.
- Mildly alkaline: avoid eye contact. If in eyes, rinse cautiously with water for several minutes and get medical advice if irritation persists.
- Contains limonene (from lemon oil); may cause an allergic reaction in very sensitive people.
- Do not discharge the undiluted concentrate into drains or water bodies; in-use rinse water may go to the sewer.
- Keep out of reach of children. Read the safety data sheet before use.

Storage, shelf life and packs

- Store tightly closed at 5–35 °C, out of direct sun. Protect from frost.
- Keep the cap on: prolonged air contact shortens life.
- Super concentrate: use within 24 months. Diluted solutions: within 14 days.
- Packs: 10 L and 20 L cans. Minimum order 100 L. Drums and IBCs on request.

The information in this data sheet reflects our knowledge at the date of issue and is given in good faith. Surfaces and conditions vary, so always test on a small, inconspicuous area first and confirm the product suits your use. This sheet does not replace the safety data sheet. For industrial and institutional use. Nanoman® is a trademark of Nilima Nanotechnologies, Mumbai. nanoman.co.in · info@nilimanano.com · TDS 99, issue 1, October 2026.