



**Product Name:** Engine Flush

**Product Type:** Pre-Oil Change Internal Engine Cleaner

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## Product Overview

**Engine Flush** is a high-performance cleaning solution designed to remove accumulated sludge, varnish, and harmful deposits from inside gasoline and diesel engines. It is used before oil change to restore oil circulation, compression balance, and extend engine life. This advanced formulation is developed using a premium blend of carrier solvents, detergents, dispersants, and corrosion inhibitors.

It dissolves contaminants that regular engine oil circulation cannot remove, making it ideal for preventive maintenance and resolving issues caused by dirty engines, especially in high-mileage or stop-start vehicles.

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## Application

- Suitable for all types of 4-stroke gasoline and diesel engines
- Recommended for use before every oil change (especially after extended oil drain intervals, poor-quality fuel, or neglected maintenance)
- Compatible with turbocharged and non-turbocharged engines
- Safe for use with catalytic converters and DPFs.

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## Performance Benefits

- Effectively cleans engine internals, including oil passages and hydraulic lifters
- Dissolves sludge, lacquer, oxidation residues, and varnish
- Helps reduce oil consumption and restore compression balance
- Frees sticking piston rings and hydraulic tappets
- Prepares engine for optimal performance with fresh oil
- Safe for gaskets, seals, O-rings, and all engine metals.

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## Direction for Use:

- Ensure the engine is warm (not hot).
- Add **one full bottle** of Petrovoll Engine Flush to the old engine oil (before draining).
- Start the engine and let it **idle for 10 to 15 minutes**.
- Do NOT drive during this time.
- Turn off the engine, **drain old oil**, and **replace oil filter**.
- Refill with new engine oil as per manufacturer's recommendations.

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## Dosage:

- 250–350 ml treats up to 5 liters of engine oil
  - For larger capacity engines, use proportionally more
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## Typical Properties

Property	Test Method	Typical Value
Appearance	Visual	Clear to light amber liquid
Odor	Organoleptic	Mild petroleum solvent
Specific Gravity @ 15°C	ASTM D4052	0.850 – 0.870 g/cm <sup>3</sup>
Flash Point (Closed Cup)	ASTM D93	> 62°C
Viscosity @ 40°C	ASTM D445	2.0 – 3.5 mm <sup>2</sup> /s
Boiling Range	ASTM D86	150°C – 230°C
Solubility in Water	ASTM D1744	Insoluble
Volatile Organic Content (VOC)	EPA 24	< 70%
Evaporation Rate	ASTM D3539	Moderate
Pour Point	ASTM D97	Below -30°C
Base Oil Compatibility	–	Fully miscible with all types
Metal Corrosion (Copper Strip)	ASTM D130	1a – Non-corrosive

## Material Compatibility:

Compatible with:

- Mineral oils, synthetic oils, semi-synthetics
- Seals and gaskets
- Aluminium, iron, steel, magnesium, and other engine alloys
- Catalytic converters, oxygen sensors, and DPF systems

## Storage & Shelf Life:

- Store in original, tightly closed container
- Keep in cool, dry, and well-ventilated area
- Shelf life: **3 years** (unopened, in proper conditions)
- Protect from direct sunlight and freezing

## Health & Safety:

Refer to the corresponding Safety Data Sheet (SDS).

- Contains petroleum distillates – avoid inhalation and skin contact
- Use in well-ventilated area
- Keep away from flames and sparks

## Disposal Considerations:

Dispose of used oil and flush residue in accordance with local regulations. Do not discharge into drains, soil, or water sources

