

Engine treatment

Technical description and historical data.

Speed Engine Cleaner

Added to suitable petrol or diesel fuel, Speed Engine Cleaner is designed to help remove combustion-system deposits. Ceracoat describes the cleaning process as allowing loosened deposits to be expelled with exhaust gases, rather than leaving large detached particles in the combustion chamber.

The source describes treatment of components exposed to the fuel-air mixture, support for restored compression, reduced emissions, binding of small water droplets in the tank, and reduced adhesion of new deposits.

Parameter	Value stated in source
Dose	100 ml per approximately 15 litres of fuel
First observable effect	Approximately 10 minutes of driving
Deposit-protection interval	Approximately 10,000 km

Ceramic Engine Care

Engine Care is dispersed in suitable lubricating oil. Under heat and friction, ceramic particles are described as adhering to metal contact surfaces and forming a protective barrier. Reduced friction is intended to reduce wear and improve mechanical efficiency.

The treatment is intended to support protection during cold starts. It does not replace adequate lubrication, engine oil or required servicing.

Physical characteristics

Values reproduced from the earlier technical description.

The original document labels these values as properties of “ceramic”. It does not clearly distinguish each concentrate or formulation. Confirm the current technical data sheet and safety data sheet before using these values for design or safety decisions.

Property	Source value
Density	Approximately 0.9 kg/L (liquid)
Odour / colour	Light odour; white / yellow
Particle size (source label: “particles volume”)	0.1-0.5 micrometres
Flash point	Above 230 °C
Auto-ignition point	Above 260 °C
Water solubility	Insoluble
Viscosity	Thick liquid
Stated ceramic action-temperature range	Approximately 20 to 1,800 °C

Interpreting temperature figures

The temperature figures in the older literature concern the stated ceramic material properties. They must not be interpreted as permitted engine, lubricant or equipment operating temperatures. Use the limits specified by the equipment and lubricant manufacturers.

Other material values in the source

Property	Stated ceramic value
Friction coefficient	0.01-0.1
Heat-transfer coefficient	40-70 W/(m·K)
Bonding to metal	Excellent
Polarity	Polar
Transition	Above 1,100 °C

Speed Engine Cleaner

Historical exhaust-emission measurements.

The following table is reproduced from earlier Ceracoat technical literature, which lists the named test organisations or clients. The source labels the first measurement "C1-C2" but does not state the units, exhaust component, vehicle details or full protocol. These are historical examples, not an endorsement or guaranteed result.

Source label	Before	After	Reduction
Renault	4.51	2.05	55%
Bosch	3.51	1.55	56%
Technic Service	2.96	0.94	68%
Dekra	3.28	0.52	84%
Opel	4.67	2.10	55%
Opel	4.39	1.32	70%
Renault	3.27	0.76	77%
VAG	3.97	0.71	82%
Bosch	1.40	0.20	86%
Norauto	2.80	1.10	61%
Pansler Brand	8.49	1.95	77%
Ferrari	0.80	0.31	63%
Citroen	4.90	1.00	80%

Documentation

The original describes tests as confirmed and certified by the Chamber of Commerce in Switzerland. The certificate and full test reports are not included in the supplied source. Request the relevant supporting documents from Ceracoat before relying on that statement.

Engine Care

Historical power and consumption examples.

The earlier source attributes the power measurements below to the University of Arnhem and the fuel-consumption measurements to the University of Eindhoven. The full study reports and protocols are not part of that source.

Power before (kW)	Power after (kW)
101.8	106.0
105.6	111.3
214.6	221.5
320.9	334.8

Fuel consumption

Distance / route	Reported reduction
1,812 / 3,556 / 4,528 miles	4.2% / 4.6% / 4.9%
Normal roads / hill roads / highway	10.0% / 6.5% / 5.8%

Starting current

Before	After
240 A	225 A
330 A	285 A

Performance context

Results depend on engine condition, application, operating conditions and measurement method. The original literature also lists maximum performance improvements and reductions; see the companion Engine Care & Cleaner overview for those stated figures.

Product guidance

These products are ready to use. Do not mix them with other substances or batches. Select the formulation for the substrate and follow the current product-specific instructions. Information reflects Ceracoat technical literature and may change as products develop. Product quality is subject to the applicable conditions of sale.