

XADO gel-revitalizant

# FOR ENGINES

Designed for wear protection  
and restoring repair of gasoline and diesel engines  
without disassembling.



Gel-revitalizant  
for gasoline engines

**9 ml**

Art. XA 12101

**3x9ml**

Art. XA 12201

**10 ml**

Art. XA 12501

Gel-revitalizant  
for diesel engines

**9 ml**

Art. XA 12102

**3x9ml**

Art. XA 12202

**10 ml**

Art. XA 12502

Package: 9 ml — tube in blister; set: 9 ml — tube in blister x 3 pcs; 10 ml — aerosol can.  
Ask your local dealer for prices.



# ADVANTAGES

A new metalloceramics coating is formed on the surfaces of friction pairs (engine parts increase in volume and restore their geometry), as a result the renovated unit surpasses the new one with its performance level and is guaranteed to serve 2–4 times longer,

- Restores and protects friction parts of the cylinder-piston group, crank- and gas-distributing mechanisms from wear.
- Significantly reduces fuel consumption (up to 30 % at idling).
- Increases oil pressure in the system to the nominal one.
- Levels and increases compression in cylinders.
- Increases the power of the engine and improves its acceleration.
- Decreases noise and vibration level by 10 times.
- Increases the life span of the units by 2–3 times.
- Protects the engine from negative consequences of cold starts.
- Improves the engine operation already after 50–100 km.
- Enables to run the engine up to 300 km in case of oil leakage.

## TECHNICAL CHARACTERISTICS

Main characteristics of the metalloceramics coating:  
 microhardness — 750 kgf/mm<sup>2</sup>;  
 high corrosion stability;  
 roughness Ra up to 0.06 pm.

## TREATMENT PROCEDURE

For an engine with the oil capacity of 3–10 liters,

**Stage 1:** Squeeze out (spray) the contents of one tube (aerosol can) into the oil filler neck of the engine warmed up to the working temperature.

Start the engine and let it idle for 5–10 min.

**Stage 2:** Repeat the procedure after 100–250 km run.

**Stage 3:** Repeat the procedure after 100–250 km run after completing Stage 2.

## Dosage

Oil system capacity, l	3–10	11–20	21–30
Number of tubes (aerosol cans), pcs.	3	6	9
Treatment schedule by stages	1+1+1	2+2+2	3+3+3
Tubes (aerosol cans) for new engines	2	4	6

## Note

- Oil must not be changed until the end of the treatment,
- Treatment is considered to be finished after the mileage of not less than 1,500 km.
- Treatment can be done at idling (4 hours — is an equivalent of 200 km run).
- New engines with run about 20,000 km should be treated in one stage.
- Engines after overhaul are recommended to treat in a usual way in three stages.
- Treatment of engines working on liquefied gas is similar to the treatment process of gasoline engines.
- Protective metalloceramics coating is formed on any working mechanism, however, if the mechanism (engine) is in a critical condition (100% wear), the destroyed parts should be replaced.

## ENGINE REVITALIZATION

During the engine operation, the cylinder-piston group in the upper “dead” point, parts of the gas-distributing mechanism (cam-pusher), friction bearing of the crankshaft and button shaft are subject to major wear.

Revitalizant contains the construction material which compensates wear of these parts. As a result of revitalization, a new multifunctional gradient coating is formed on the surfaces of friction pairs with a set of the required service characteristics and stress states. Engine parts grow in volume and return “hundreds” and “tenths” which have been lost while engine operating. **This is the repair effect,**

The obtained coating possesses unique properties: significant durability, high rustproof quality and low roughness. After revitalization, the engine parts are guaranteed to serve 2–4 times longer. **This is the effect of wear protection,**

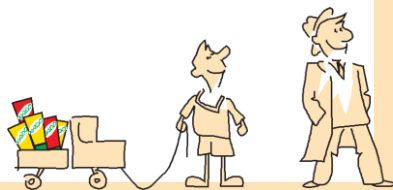
As a result of the engine revitalization, compression in cylinders significantly grows and levels, the fuel consumption decreases, acceleration and car rolling grow; oil pump, turbo units, shafts and bearing brasses (bearings), and cylinder faces are restored; the ellipse form is removed. The engine works quietly, without vibrations. **Due to revitalization the engine can be always kept in top condition,**

## REVITALIZATION RESULTS

Electronic pictures of the cylinder surface in the area of the upper “dead” point are done with a video image endoscope.



Car Skoda Fabia, 1.4 l, production year 1999, (mileage before treatment 137,300 km, and after treatment 170,000 km).



The surface of the cylinder is worn, scratches and risks are 0.1 mm deep.

XADO Revitalizant fully restores the cylinder surface forming a metalloceramics coating on it.

Scratches and risks disappeared, smooth metalloceramics surface can be seen.