

## TECHNICAL DATA SHEET

### Carbon Foam Cleaner (set)

Component C1 (cleaning foam) is a specially developed powerful formulation which dissolves and removes all contaminations, that are operationally caused, in the entire combustion chamber of an engine. The product removes carbon residues in the area of the cylinder head, particularly on the valves, the piston crown, and in the area of the first piston ring. It also cleans the seats of the inlet and exhaust valves (if they are open). Residues in the EGR valve, the turbo and the air intake system (inlet manifold to inlet valves) will also be effectively removed.

Component C2 (neutralizer) causes a chemical reaction that liquefies the previously used cleaning foam (C1) and binds the dissolved contamination. The **Carbon Foam Neutralizer** allows the resulting emulsion and dissolved deposits to be safely removed from the combustion chamber. **Carbon Foam**

**Neutralizer** protects the engine from high friction during the start-up process, because C2 has highly efficient lubricants with exceptionally high cohesion (extreme pressure additives). This will prevent wear of the mechanical components. In addition, the seals will be effectively protected.

#### Assets of the product

**Systac Carbon Foam Cleaner** offers the following advantages if used according to specifications:

- Dissolves carbon deposits in the combustion chamber, the valves and in the adjustment of variable geometry turbochargers very effectively.
- Thanks to the special formula, the foam stays active for up to 45 minutes.
- With Component 2, the foam can be neutralized at any time and the lubrication on startup is guaranteed
- The cleaning foam expands so that it creeps to places that otherwise cannot be reached without complete disassembly
- **Carbon Foam Cleaner** does not affect seals and is compatible with all engine parts.

#### Instructions

Use your personal protective equipment during every treatment.

To clean combustion chambers: disassemble spark plugs or injection nozzles when the engine is warm. Put the pistons in the desired position and spray a sufficient amount of **Carbon Foam Cleaner** into the compartment so that the foam will come out at the entrance. Let it soak for 45 minutes. Move the pistons slightly back and forth after 20 minutes of soaking time, if necessary. (Note that the foam may come out at the opening). Inject a sufficient amount of **Carbon Foam Neutralizer** after 45 minutes so that all foam has disappeared and a lubricating film remains in the combustion chamber. Empty the piston crowns with a suitable instrument to prevent slugging. Start the engine in a dry condition with a cloth over the openings and rebuild the engine. Use **Systac Oil System Cleaner** as a post-treatment and add a dosage of **Systac Fuel Cleaner** to the tank.

To clean the valves: disassemble the intake/exhaust manifold when the engine is warm. Close the valves to be treated and apply **Systac Carbon Foam Cleaner** to the channel. After 45 minutes, spray the channels and valves **with Carbon Foam Neutralizer** to neutralize the foam and to lubricate the parts. Remove the contamination and assemble the removed parts. Use **Systac Oil System Cleaner** as a post-treatment and add a dosage of **Systac Fuel Cleaner** to the tank.

To clean VGT (variable geometry turbocharger): dismantle the exhaust behind the turbocharger. Spray with the supplied hose a sufficient amount of foam behind the turbine wheel of the turbocharger. Allow the foam to soak in for 20 minutes and move the adjustment back and forth for at least 5 minutes until the adjustment moves smoothly and without faltering. Repeat the steps if necessary. Neutralize the foam with **Systac Carbon Foam Neutralizer** and assemble the exhaust. Always add a dosage of **Systac Turbo/DPF Cleaner** to the tank content as post-treatment.

If you have any questions, please consult your advisor.

#### Available packaging

SYS-CFC-90015 – 500 ML  
SYS-CFN-90015 – 500 ML