

CARBON X - K1 and K2



INSTRUCTIONS

The **bluechemGROUP** has developed a completely new chemical formulation for combustion chamber cleaning in its in-house laboratory. With Carbon X, we present a system that specifically and precisely removes even stubborn deposits in the cylinder head area. In particular at the inlet and outlet valves, the piston crown and piston top lands, thus ensuring quiet engine running, low emissions, powerful performance and economical fuel consumption.

What has to be considered before applying?

Read the instructions thoroughly and acquaint yourself with CARBON X K1 – K2. Watch the video on our website www.bluechemaustralia.com.au. Under the cap off the K2 is the application straw and nozzle for the K1. Components K1 and K2 must be shaken well for 30 seconds before use.

How much of the product needs to be applied?

In general, the K1 & K2 is sufficient to treat an 8 cylinder engine. In case of extreme carbonisation, the process should be repeated. For optimum cleaning of the valves and valve seats, set them to overlap so that the foam can reach all surfaces, i.e. spin engine 180 degrees.

What engine temperature is required?

CARBON X requires surface heat to achieve best results. Start the cold engine and let it idle for 10 minutes. Then stop the engine and apply Oil System Cleaner (P/N 33018) into the engine at operational temperature. Run for a further 5 minutes then commence the cleaning procedure with CARBON X.

Remove spark plugs or glow plugs / injectors

Remove fuse for fuel pump, at the end of process you will be cranking the engine with the spark plugs still removed to remove excess residue.

What has to be considered when applying the product?

Spray K1 at intervals (about 3 seconds per interval), because the foam expands very quickly. Stop the process as soon as the foam emerges from the opening. (Clean up any excess foam with a rag.)

Leave the foam in engine for 15 minutes to commence the cleaning process. Then spray K2 at intervals (about 4 seconds per interval), because it takes several seconds for it to dissolve the foam. Leave K2 for 3-4 minutes to aid in chemical reaction.

Use a extractor / vacuum pump to suck out the liquid.

NOTE – IF ENGINE HAS PRESENTED WITH A PROBLEM (i.e. rough idle) manually spin engine and re-apply K1 & K2. (as above)

After using extractor / vacuum pump to suck out the liquid.

1. Put some absorbent paper on the openings (injector or spark plugs).
2. Let the engine turn-over 3 to 4 times for about 5-10 seconds.
3. Change with clean absorbent paper.

4. Let the engine turn 2 times for about 5-10 seconds. Checking that there is no residual carbon on the paper.
5. Reassemble the spark plugs or glow plugs, injectors.
6. Reassemble the engine components and fuel pump fuse.
7. Start the vehicle, the engine should now run smoothly.

Which further steps are recommended after the application? (See over page)

1. Apply OXICAT (P/N 33230) into the Petrol or Diesel fuel tank.
2. Apply a can of Fuel System Cleaner (P/N 33028 Petrol) or Common Rail (P/N 33098 Diesel) into the fuel tank.
3. For optimal results, clean the air intake system using Fuel Applicator Spray (P/N 33139) or Diesel Applicator Spray (P/N 33149) This will remove oily residue from the Turbo, or a subsequent intake system cleaning with Triple X PLUS (33648) using the CLEARFLOW and S-PIPE Adaptor (Product Data Instructions) www.bluechemaustralia.com.au/technical-data/msds/
4. Perform an oil change.
5. Send the customer away with Powermaxx Oxicat (P/N 33230) to re-apply next time they fill up with petrol or diesel.

What has to be done if the engine is not running smooth, has lost power, or there is a warning light on?

1. Let engine idle for 30 seconds to disperse any residue K1 – K2.
2. Do not perform a test drive.
3. Read the faulty memory of the ECU. (check for fault codes)
4. Check or clean the spark plugs (petrol).
5. Check or clean the intake manifolds and the sensors contained in them.
6. Check or clean the exhaust gas recirculation (EGR), vacuum lines.

Other uses for CARBON X

Cleaning the EGR valve and intake manifold.

We recommend for the removal of these components before performing the cleaning procedure with CARBON X making sure that all parts are dry before reassembly.

Safety Equipment. Outside of normal O H & S equipment which should be used within the workshop, we recommend that the following be used whilst using the CARBON X. • Safety Glasses • Gloves • Overalls. Any product should be removed immediately if it comes into contact with skin. Should any product be taken or swallowed, please refer to the MSDS sheet. All MSDS sheets are available for download at www.bluechemaustralia.com.au

Do not expose the product to hot engine parts – risk of fire.

CARBON X - Further steps are recommended during and the after the application.

OIL SYSTEM CLEANER

Applied to Engine before **CARBON X**
Cleaning - 300ML Treats up to 6 Litres of Oil. (Change oil after **CARBON X** Cleaning Completed)

- Removes residues on piston rings and in the upper cylinder area.
- Reduces exhaust emissions and improves engine performance.
- Unique cleaning action.
- Contains no simple alcohols.
- Reduces friction and wear.
- Fresh oil will be cycled through a clean engine.
- Reduces fuel and oil consumption
- Extends the life span of the catalytic converter.

Treats up to 6 litres oil
P/N 33018 – 300ml

OXICAT

Applied to fuel tank Petrol / Diesel before **CARBON X**

- New cleaner for the whole exhaust system (oxygen sensor, catalytic converter, turbo charger and EGR as well)
- Dissolves resin, gum and carbon deposits while driving.

BENEFITS

Avoids OBD failure caused through high contamination
Increases fuel efficiency and reduces exhaust emissions
For all petrol / diesel / hybrid engines, Treats up to 80 litres
P/N 33230 – 300ml



FUEL APPLICATOR SPRAY – PETROL DIESEL APPLICATOR SPRAY

- Cleans the entire air intake system of petrol / diesel engine
- This product is vaporised and flows through the air intake system cleaning inlet, inter-cooler, EGR-valve, inlet and outlet valves and combustion chambers
- Improves smoother engine running
- Reduced exhaust emissions
- Improves fuel economy

P/N 33139 - 500ml - PETROL

P/N 33149 - 400ml - DIESEL



CLEARFLOW - Triple X PLUS used with S – Pipe Adaptor, Air Intake System cleaning device for petrol and diesel engines. **CLEARFLOW** - also used for Injection cleaning. Professional use only: **P/N 34011**

FUEL SYSTEM CLEANER –

PETROL Applied to fuel tank
Petrol before **CARBON X**

- Bind condensed water
- Ensures a clean and powerful combustion, good performance,
- Low fuel consumption
- Optimum values of the exhaust emissions

Treats up to 80 litres Fuel
P/N :33028 - 300ml

COMMON RAIL DIESEL SYSTEM

CLEAN & PROTECT -DIESEL Applied to fuel tank Diesel before **CARBON X**

- Removes operational caused contamination in the entire system.
- Increase of compression pressure.
- Removal of harmful moisture.
- Total lubrication of the entire fuel system including the high pressure fuel pump
- Increased fuel economy & power

Treats up to 80 litres Diesel
P/N 33098 - 375ml

TRIPLE X PLUS

Professional use only: applied solely using Air Intake Cleaning **CLEARFLOW** Triple X PLUS can be used on all engines equipped with oxygen sensors, catalytic converters or fuel injection.
Note: When in use, instructions for the **CLEARFLOW** device, must be observed.

P/N 33648 375ml

