



SAPPHIRE™ Engine Strangler

The safest way to shut down a diesel engine
for your business and the environment

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SAPPHIRE™
ENGINE STRANGLER



A unique, sustainable agent that achieves emergency shut-down of diesel engines

When a diesel fuelled engine needs to be shut down in an emergency situation, you need to move fast. Personnel and property safety is paramount, and ideally you want the vehicle to remain unharmed, and ready for action once the threat has been removed.

Using the revolutionary 3M™ Novec™ 1230 Fire Protection Fluid, Wormald has developed the SAPPHIRE™ Engine Strangler system. SAPPHIRE™ uses this unique sustainable chemical agent that achieves emergency shut down of diesel engines without causing damage.

How does it work?

Although stored in liquid form, the chemical agent quickly vaporises when released into the engine's induction system. By rendering the inducted air/fuel mixture non-combustible, it effectively shuts down the vehicle's engine, averting disaster. Although it looks exactly like water, it does

not cause the type of damage that is usually associated with water when used in this situation. And unlike global warming halo-carbon agents, it's not controlled by environmental restrictions, so once the engine is shut down you can get back to business as soon as possible.

Adhering to Australian Standards

Engine strangler systems are designed to be fitted to diesel engine vehicles so the engine can be shut down in an emergency situation. Australian Standard AS 2089 requires that all flammable liquid filled tankers which use the vehicle propulsion engine to drive a pump, to have a manually operated strangler fitted to the air intake. Mechanical strangler systems can be used, but if they have not been fitted to the vehicle by the original manufacturer they are difficult to fit later. However, it is not until the final configuration of the vehicle has been determined that the need for a strangler system can be established.

Fact: A unique, sustainable agent that achieves emergency shut down of diesel engines without causing damage to your business or the environment



No new greenhouse gas controls causing business interruption

Fact: Unlike chemical agents, which last in the atmosphere for more than 33 years, SAPHIRE™ has an atmospheric lifetime of only 5 days.

Strict legislation from the federal government's Department of the Environment and Heritage (DEH) controlling Synthetic Greenhouse Gases (SGCs) has placed new pressure on the fire protection industry to develop environmentally friendly solutions that protect people and property at no cost to the environment.

Wormald's SAPHIRE™ Engine Strangler, unlike most other chemical agents, is exempt from these new federal regulations prepared by the DEH for the end-use controls on purchase, sale, safe handling and disposal of chemical agents and gases. Under this legislation, all global warming chemical agents are declared controlled substances. This means that businesses are now obliged to use a licensed person to design, install, inspect, test and refill systems using these agents or be in breach of the legislation.

With zero ozone depletion potential, short atmospheric lifetime and a global warming potential of less than one, SAPHIRE™ offers not only a, long-term sustainable solution for emergency engine shutdown, but also reduces the risk of business interruption due to the new greenhouse gas controls.

Sapphire™ Engine Strangler

Agent Capacity	2.5 kg	
Weight Full (approx)	4.6 kg	
Dimensions	– Height	430 mm
	– Width	200 mm
	– Depth	130 mm
Operating pressure	690 kPa	
Periodic test pressure	2.5 MPa	
Periodic pressure test	5 Yearly	
Construction	– Cylinder	Mild steel
	– Valve	Brass
	– Handles	Stainless steel
Finish	– Cylinder	Red powder coat
	– Valve	Nickel plated
	– Handles	Natural
Product Code	AAK00758	

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Protecting People & Property



Protecting people, property and business continuity

Installation of the SAPPHIRE™ Engine Strangler is a simple matter of fixing the bracket in a suitable position on the vehicle, mounting the SAPPHIRE™ unit in the bracket, and connecting a discharge hose from the outlet valve to an adaptor in the engine's inlet manifold.

And operating the system couldn't be easier – simply withdraw the safety pin from the valve assembly and squeeze down fully on the operating lever. The operating lever locks down in the valve open position to ensure that the entire system contents are discharged.

The SAPPHIRE™ Engine Strangler should be serviced and maintained in accordance with the requirements of Australian Standard AS 1851 - Section 15, and should be refilled immediately after use or if the pressure indicator shows loss of pressure.

All servicing and recharging can be arranged through your nearest Wormald office.

Fact: The SAPPHIRE™ Engine Strangler is easy to fit and operate.



Available at Wormald
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