



## PRODUCT INFORMATION SHEET

### WYNN'S SUPREME ENGINE FLUSH

Product Number: 51406 24 x 350 ml

WYNN'S SUPREME ENGINE FLUSH is a pre-oil change motor flush that internally cleans vital engine parts, removing harmful deposits, sludge and varnish that impede oil flow.

Wynn's Supreme Engine Flush is specially designed to gently dissolve and remove internal engine contaminants by suspending them in a high level of dispersants. This assures maximum drainage of the contaminants with the used oil, thereby minimising new oil contamination.

#### Introduction

Oil breaks down from chemical changes and mechanical stress that occur as mileage is put on a vehicle. Additives present in all motor oils are depleted in service. The oil oxidises. Varnish and sludge deposits accumulate on vital engine parts and can interfere with smooth operation.

Typical do-it-yourself five minute motor flushes are mostly solvent-types that dilute engine oil so it will drain out faster. If a vehicle is driven before changing the oil or the flush is left in too long, the oil's lubrication ability can be reduced. This same type of solvent may not affect varnish and sludge that has accumulated on engine surfaces. The new oil may be contaminated by the deposits left behind.

#### The Need For Clean Engines

Today, high speed, high compression engines and especially those with emission control, run hotter.

To offset this, motor oils have been compounded to have increased dirt removing properties. Motor oils with good detergent properties, collect dirt from all parts of the engine and dust that enters the breather, and this dirt is held in suspension in the oil.

As this dirt accumulates and detergent failure occurs, little lumps become big lumps and goey sludge which is called engine mayonnaise, forms. This sludge combines with the resins, gums and lacquers (which result from the oxidation of lubricants) and the acids which are formed as the by-products of fuel combustion.

For example, for every 2,000-3,200 km of average driving and approximately 460 litres of fuel consumed, a car engine can, depending on fuel and oil quality and engine condition, produce:

- 410-550 litres of water
- 13-45 litres of unburned petrol
- 220-900 grams of sludge
- 110-450 grams of varnishes and resins
- 170-280 grams of insoluble salts

Under conditions of high temperatures, all of this foreign material becomes baked on to the moving parts of the engine, and only part of it is removed when the oil is drained. When the oil is changed, the new oil is already dirty before the motor drives out of the service station.

Unless all dirt is completely removed from the engine, the volume which can accumulate after months or years of driving, becomes almost unbelievable. Although some auto manufacturers are recommending extended drain intervals, the fact is that motor oils alone are unable to remove the amount of dirt that can accumulate in 8,000-10,000kms. There is now a great need for an engine on a prolonged drain schedule to be flushed at the time of each change.

### Advantages

Wynn's Supreme Engine Flush is a premium formula that safely cleans and prepares the crankcase for the addition of clean oil.

Wynn's Supreme Engine Flush contains no harsh solvents or alcohols as do many motor flushes. This special formula helps suspend and remove sludge and varnish deposits from vital engine parts.

But Wynn's Supreme Engine Flush is more than a flush! It's protection, too.

Wynn's Supreme Engine Flush is formulated with the same detergents, dispersants and anti-wear additives as motor oil, so the engine still has lubrication protection during cleansing. It's even safe to drive before draining.

Whether you change your own oil or have it done professionally, use Wynn's Supreme Engine Flush before each oil change.

Wynn's Supreme Engine Flush is specially formulated to provide the following advantages:

- Provides controlled dissolving and removal of crankcase deposits from the top down, and helps provide optimum engine lubrication and performance by removing soft deposits from critical areas.

- Dissolves and thins highly oxidised oil, allowing a more complete removal of the used oil, thereby reducing the contamination of the new oil.
- Helps reduce oil consumption problems resulting from blocked or restricted cylinder head oil drain return holes.
- Assists in removing crankcase contaminants and holds them in suspension so that they can be drained with the used oil.
- Helps assure optimum engine life by reducing the accumulation of deposits which can block oil lines and screens and restrict proper lubrication of engine components.
- Assures proper valve train and oil pump operation by removing deposits in these areas, thereby helping to ensure engine efficiency.
- Removes and suspends low temperature sludge deposits.
- Conditions the metal surfaces to provide additional anti-wear protection from metal-to-metal contact during the cleaning operation and in preparation for the new oil.
- Formulated with the unique Wynn's Friction Proofing package which protects internal engine parts and reduces friction during the cleaning process prior to the addition of the new oil.

### Benefits

Wynn's Supreme Engine Flush is a pre-oil change preparation that is specially formulated to provide the following benefits:

- Contains effective concentrated cleaners that remove sludge and varnish.
- Restores engine compression and performance.
- Suspends and removes deposits for improved lubrication.
- Protects metal parts from harmful contaminants between oil changes.
- Contains no harmful solvents, acids or alcohols.
- Cleans build-up from oil lines.
- Formulated with the unique Wynn's Friction Proofing.
- Maintains oil protection.
- Helps maintain oil specifications.

- Promotes a more complete draining of used oil.
- Assures engine efficiency.
- Reduces oil consumption resulting from blocked oil drain return holes.
- Dissolves old highly oxidised oil.
- Reduces new oil contamination.
- Cleans in one application.

### Applications

Use before each oil change to improve engine performance.

Add entire contents of 350ml bottle of Wynn's Supreme Engine Flush to the used engine oil, with engine turned off.

One bottle treats 4 to 5 litres of engine oil. Do not exceed 10% treatment level.

Run the engine on idle for 5 minutes.

With the engine off, drain the crankcase while the oil is still hot.

Replace the sump plug, install a new oil filter and re-fill the crankcase with new oil.

Don't pour clean oil into a dirty engine.

### Typical Characteristics

Appearance	Clear Thin Liquid
Colour (Visual)	Amber
Colour (ASTM D1500)	2.5
Density @ 15°C	0.901 (ASTM D 4052)
Viscosity @ 40°C (cSt)	12.0 (ASTM D 445)
Flash Point (°C) COC	165 (ASTM D 92)
Freeze Point (°C)	-23
Volatiles (% Vol)	Nil
Boiling Point (°C)	>193