



WYNN'S HEAVY DUTY ENGINE COOLANT  
Date of Issue Feb 2011

## PRODUCT INFORMATION SHEET

### **WYNN'S *PROFESSIONAL FORMULA* HEAVY DUTY ENGINE COOLANT**

Product Number:

Green 52200 205 litres; 52020 20 litres; 52005 5 litres; 52001 1 litre

Red 53020 20 litres; 53001 1 litres;

Premix with water: 54200 205 litres; 54020 20 litres; 54005 5 litres

Wynn's Professional Formula Heavy Duty Engine Coolant is the latest development in extended life anti-freeze, anti-boil glycol concentrates (or premix) and is an advanced blend of second generation Organic Inhibitor Technology.

The revolutionary approach of blending carboxylate inhibitors for maximum corrosion protection of aluminium alloys, and ethylene glycol for anti-freeze anti-boil protection, provides a long life coolant with many performance advantages over conventional anti-freeze anti-boil coolants.

When mixed with de-ionized or distilled water in correct ratio as stated, Wynn's Heavy Duty Engine Coolant offers the following advantages:

- ~ Extended fluid life - 4 years, 250,000 km whichever comes first.
- ~ Ultimate protection to both the engine cooling system and the radiator.
- ~ Environmental friendly - phosphate, amine, borates, nitrate and nitrite free
- ~ Eliminate water pump problem due to silicate as in convention coolants.
- ~ Meets most OEM specifications

**Wynn's Heavy Duty Engine Coolant meets or exceeds the performance requirements of the following engine coolant specifications:**

- AZ/NZS 2108 1:1997 Type A
- ASTM D1384
- ASTM D3306
- ASTM D1384
- ASTM D4340
- ASTM D4985
- ASTM D4656
- ASTM D2570
- Caterpillar E0535, EC1
- Ford ESE-M97B44-A, ESE-FM97B18-C, WSS-M97B44-D; WSS-M97B51-A1
- General Motors GM1899M, GM6277M, GM6038M, GM1825M, HN2043,
- Mazda MES MN 121 C-FL01, MN121D, MN121O
- Mitsubishi BS6580
- New Holland WSN M97B18-D
- Toyota K2601G-1G
- SAAB FSD 8074
- Cummins 92 T8-9
- Hino BS6580
- John Deere JDM-H3B
- MAC TMC-RP302a and Type P
- Mercedes Benz DBL-7700
- Nissan NES 5059 LLC
- Perkins BS6580



HN2217

- Chrysler MS7170, MS9769
- Case MS1710
- Volkswagen VW T1-774D

Wynn's Heavy Duty Engine Coolant provides exceptional summer cooling and excellent freezing protection during winter. It should not be used in concentrated form. A 50% dilution (i.e. when mixed with an equal volume of high quality soft, de-ionized or distilled water) is generally recommended for the best balance of protection against freezing, corrosion and summer boil-over.

Mixing ratio with de-ionised water	Approx. Anti-freeze protection
50%	-37 C
33%	-19 C

***Wynn's Heavy Duty Engine Coolant provides excellent value as an aluminium compatible, universal, long life engine coolant. Recommended for current model vehicles including petrol, diesel, gas, supercharged, turbocharged and stationary engines, particularly where the vehicle manufacturer specifies an anti-freeze/glycol concentration of between 25% and 60% is used.***

### Wynn's Heavy Duty Engine Coolant Performance Testing

Coupon	ASTM D-1384 Glassware Corrosion		ASTM D-2570 Simulated Service	
	Test Results <sup>1</sup>	Max. Spec. <sup>1</sup>	Test Results <sup>1,2</sup>	Max. Spec. <sup>1</sup>
Copper	1.7	10	1.1	20
Solder <sup>3</sup>	4.3	30	21.6	60
Brass	0.6	10	1.6	20
Steel	0.1	10	+0.8	20
Cast Iron	+0.8	10	+1.2	20
Aluminum	+0.3	30	+2.5	60

1. Wt. /loss coupon in mg. 2. Copper/brass radiator results. 3. Regular 70/30 lead on copper/brass coupons.



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### Wynn's Heavy Duty Engine Coolant Performance Testing

ASTM Test Procedure	Test Results	Specification
D4340 Heat Rejecting Aluminium Corrosion	0.16 mg/cm <sup>2</sup> /week	1.0 maximum
D2809 Aluminium Water Pump Cavitation-Erosion Corrosion (rating from 1 to 10)	10	8 minimum

Shelf-life stability: minimum 2 years from date of manufacture

### Wynn's Heavy Duty Engine Coolant Physical & Chemical Properties

Test	Performance	Test Method
pH 50%	7.6 - 8.5	ASTM D-1287
Reserve Alkalinity (ml)	6 min.	ASTM D-1121
Specific Gravity (15.6°C/60°F)	1.125 - 1.135	ASTM D-1122
Freeze Point (50% vol.)	-37°C/-34°F	ASTM D-1177
Foam Volume (ml)	50 max.	ASTM D-1881
Break Time (sec)	5 max.	ASTM D-1881
Flash Point	116°C/240°F	ASTM D-92
Fire Point	120°C/248°F	
Ash Content (wt. %)	5 max.	ASTM D-1119
Odour	Characteristic	
Colour	Green or Red	
Total Glycols (Weight %)	94.0 min.	
Inhibitors and dye (Weight %)	5.0 max.	
Total Apparent Water (Weight %)	3.5 max.	
Chloride ppm	25 max.	ASTM D-3634
Silicon (ppm)	185 max.	ICP

The performance and physical property data described for this product is typical results not sale specifications except where maximum or minimum is indicated.