



June 2001

TURBO POWER UNIVERSAL ENGINE COOLANT

Turbo Power Universal Antifreeze/Coolant is a traditional engine coolant based on a proprietary formulation of corrosion inhibitors. The low silicate level of this product allows it to be used in both automotive and diesel applications. The product is phosphate and amine free. It is compatible with coolant filters, heavy duty diesel supplemental coolant additives (SCAs) and other traditional corrosion inhibited engine coolants.

Universal Engine Coolant provides corrosion protection for all cooling system metals including aluminum. It meets or exceeds the performance requirements of the following engine coolant specifications:

- ASTM D-3306, D-4340, D-4985
- ASTM D-4656 (50/50 premix automotive)
- ASTM D-5345 (50/50 premix diesel)
- SAE J1034, J1941
- Ford ESE-M97B44A
- Chrysler MS-7170
- Cummins 90T8-4
- Detroit Diesel 7SE 298
- TMC RP 302A
- US Federal A-A-870

Turbo Power Universal 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. For increased freezing protection in extremely cold areas a 60% volume concentration can be used. Concentrations of greater than 70% by volume are not recommended.

Recochem offers you and your customers continuing commitment to:

- Reliable supply
- Consistent high-quality product
- Unsurpassed technology
- Valuable technical service backup
- Education on safe use and handling

For more information on Recochem Engine Coolant Solution for your application contact your Recochem representative.



**Turbo Power Universal Antifreeze/Coolant
Physical and Chemical Properties**

Test	Result	Test Method
pH 50%	10.0 – 11.0	ASTM D-1287
Reserve Alkalinity (mL)	10.0 min.	ASTM D-1121
Freeze Point (50% by vol.)	-37°C / -34°F	ASTM D-1177
Foaming:		ASTM D-1881
Foam Volume (mL)	50 max.	
Break Time (sec.)	5 max.	
Flash Point ¹	116°C	ASTM D-92
Fire Point ¹	120°C	
Ash Content (wt.%) ¹	5 max.	ASTM D-1119
Odour	Characteristic	
Colour	Standard or buyer spec.	
Composition (wt.%):		
Total Glycols	95.0% min.	
Inhibitors and Dye	3.0% max.	
Total Apparent Water	3.5% max.	
Chloride (ppm)	25 max.	ASTM D-3634
Silicon (ppm)	224 max.	ICP

**Turbo Power Universal Antifreeze/Coolant
ASTM Product Performance Testing**

Coupon Type	Glassware Corrosion Test ¹	ASTM D-1384 Max. Spec.	Simulated Service Test	ASTM D-2570 Max. Spec.
Copper	0.9	10	5	20
Solder	15.0	30	24.0	60
Brass	1.3	10	3	20
Steel	0.3	10	1	20
Cast Iron	2.9	10	2	20
Aluminum	+1.8	30	0	60

Notes: ¹ Weight loss per coupon in mg.



ASTM Test Procedure	Test Results	Specification Limit
D-4340; heat rejecting aluminium corrosion	0.18 mg/cm ² /week	1.0 mg/ cm ² /week max.
D-2809; aluminium water pump cavitation erosion corrosion	8	10 max.

Shelf life stability: minimum 2 years from date of manufacture

Universal Engine Coolant has no adverse effects on gaskets, hoses or automotive finishes and under normal conditions, in unopened containers, is stable for two years.

The performance and physical property data described for this product are presented in good faith and believed to be reliable, however, they should be considered as typical results and not as sales specifications.

Notice: Because use conditions and applicable laws may differ from one location to another and may change with time, customer is responsible for determining whether products and the information in this document is appropriate for customer's use and for ensuring that customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Recochem's warranty is limited to the claims of product meeting stated specifications. It is the responsibility of the end user to determine product suitability as recommended in the Owner's Manual and to follow engine manufacturer's instructions.

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