

## Technical Data Sheet

### PATRON COOLANT ANTIFREEZE

#### Long Life Coolant

#### PRODUCT DESCRIPTION :

PATRON COOLANT ANTIFREEZE is a ready-to-use, phosphate-free, silicate-free, nitrite-free and borate-free, ethylene glycol-based coolant that is designed to provide exceptional wet sleeve liner cavitation and corrosion protection of all cooling system metals. PATRON COOLANT ANTIFREEZE is formulated with organic corrosion inhibitors to provide total cooling system protection for on-road and off-road use.

#### APPLICATION :

PATRON COOLANT ANTIFREEZE is recommended for all types of passenger cars, heavy-duty diesel, gas engines and stationary engine applications regardless of fuel type being used. It is also suitable for marine cooling systems where freeze protection is needed. Mixed fleets where both light-duty and heavy-duty trucks are present.

#### FEATURES & BENEFITS :

- Designed for use in engines running EGR and SCR technologies that can increase cooling system temperatures
- Eliminates the cost of SCAs
- Fully compatible with other quality Organic Acid (OAT) and Nitrated Organic Acid (NOAT) heavy-duty extended life coolants
- Non-abrasive formula to improve water pump seal life
- Optimal hard water compatibility and reduced hard water scale
- Provides outstanding long-term elastomer compatibility

#### PERFORMANCE LEVELS / MEETS OR EXCEEDS :

- BS 6580
- ASTM D3306
- SAE J1034, J1038
- Cummins 90T8-4
- CAT ELC (EC-1)
- Detroit Diesel 7SE298
- GM 1825, 1899M, 6277M
- TMC RP329
- Freightliner 48-22880

#### TYPICAL PROPERTIES:

PARAMETERS	ASTM	UNIT	PATRON COOLANT ANTIFREEZE			
Concentration			33%	50%	60%	100%
Freezing Point	D1177	°C	-16	-37	-45	-12
pH	D1278	-	8.0	8.1	8.2	8.3
SP. Gravity @15°C/ 60°F	D4052	g/cm <sup>3</sup>	1.04	1.06	1.07	1.11

#### HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS.

#### STORAGE:

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.