

# ANTIFREEZE/COOLANT



Manufactured & Marketed By :



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**RNR**  
INDUSTRIES



## Company Profile

The RNR Industries was established in the year 2009.

RNR Industries is marketing through automobile service stations, petrol pumps, Having wholesalers and retailers network all over India

The total covered plant area is around 1,800 square yard.

RNR Industries is professional coolant manufacturer.

Certified for ISO 9001:2015

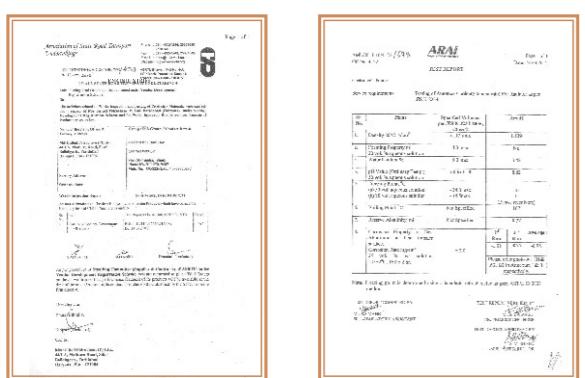
Plant Situated in Gurgaon - India and having a production capacity of more than 30 lacs liters, of Coolant per annum, The company is managed by highly qualified technical personnel having very large experience in coolant industry.

Quality control and R&D labs are equipped with Modern testing equipments managed by highly qualified professionals

Having automatic filling lines for coolants - one for filling small packs from 500ml upto 5 liters. bottles. Second for filling buckets from 20 liters upto 210 liters.

Having blow molding machine which can manufacture HDPE bottles from 1 liter to 5 liters capacity. Having a RO and DM water plant. Manufacturing products as per Indian(BIS). Japanese (JIS), British Standards (BS) and American standards (ASTM)

## ASRTU AND ARAI Certifications



## Engine Coolant

Technomek, Glycool & Acuramek engine coolants are applicable in extensive range of applications such as passenger cars, heavy-duty trucks, construction equipment, buses, power generators and marine engines. Products are available in form of concentrate & ready to use. Each & every products is tested as per Indian(BIS). Japanese (JIS), British Standards (BS) and American standards (ASTM).

The basic requirement of the engine coolant is to transfer heat from the internal combustion engine to the radiator, where the fluid is cooled by means of airflow. Further, the coolant needs to provide protection against freezing and boiling, all year-round.

Heat transfer properties, freezing and boiling protection are mainly determined by the base fluid. Commonly used base fluids are mixtures of Mono ethylene glycol & DM water or simply water when there is no need for freeze protection.

Corrosion protection is mainly determined by the type and level of corrosion inhibition additives. Distinction is being made between organic inhibitors and inorganic. Depending on the nature of their inhibitors, products are commonly classified in following technology types :

### OAT (Organic Additives Technology) Coolants

Our organic coolant make use of virtually non-depleting organic corrosion inhibitors.

### Lobrid coolant

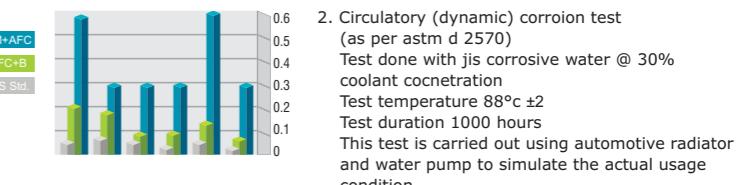
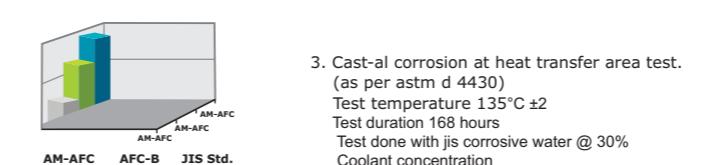
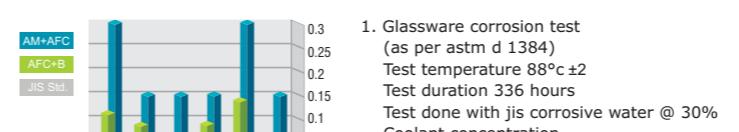
The combination of an organic backbone with a small percentage of mineral inhibitors leads to the so called 'lobrid' coolants.

### Hybrid coolants

The combination of mainly mineral inhibitors together with a small percentage of organic ones lead to the formulation of hybrid coolants.

### IOAT (In organic Additives Technology) Coolants

Such coolants are formulated with in organic inhibitors only



### Comments

- Cast iron & steel show visual corrosion although no blackening and discolouration observed.
- Brass, Solder, Copper although show slight discolouration, no corrosion is found. Weight diff. also well in limits.
- Cast Al show very good result, also no major discolouration considering the low concentration level.
- All metals show very good results.
- No visual corrosion or discolouration observed in any test coupons.
- Weight diff. well in limits
- Cast Al shows very good result, also no discolouration.



## Acuramek Coolant

Heavy Duty Anti-Freeze Super Concentrate Coolant

Acuramek is an environmentally sensitive coolant & corrosion inhibitor super-concentrate deploying the highly advanced NAF technology and slow depleting OA inhibitor. Acuramek is eminently suitable for protecting all automobile cooling systems, construction, earth moving, mining & quarrying equipment, marine engines, stationary power generating units, high temperature aluminum engine blocks, central heating systems.

Used in a 50% dilution with water the following service intervals can be attained : guaranteed run for km/years, whichever is earlier.

Passenger Cars : 80,000 km / 2 years

Heavy Duty Diesel - On Road (Trucks / Buses) : 80,000 km / 2 years

Heavy Duty Diesel - Off Road (Bulldozers / Earth Movers), : 50,000 Hours

Power Generators & Marine Engines

Mixing Ratio : 1:3

Environmentally Safe

Extended Service Life

Complete Cooling System Protection

Reduced Maintenance Costs

Saves Time & Money



## Research & Development

Innovation and ingenuity are core values for RNR Industries, we endeavor to remain a technology leader, meeting and exceeding our customer expectations with novel solution, enhanced products and superior technical support services. RNR Industries R&D focuses on delivering market driven research, providing customer products and solutions that respond to specific customer needs.

RNR Industries strives to improve existing processes and continues to invest in fundamental research that will provide the engine coolant solutions for future applications. Successfully merging our customer insights, market understanding and technical know-how into new products and technologies has been the foundation of our research strategy.

The RNR Industries R&D department is located in Gurgaon where it has state of the art laboratories and research facilities equipped with all standard performance evaluation. It also develops and applies proprietary tools and techniques to support the various customer and development projects. The department supports RNR Industries' commitment to quality, safety and environmental good citizenship and maintains ISO-9001:2015 accreditations.

Our R&D is equipped with industry standard testing and proprietary in-house and customer developed tools to evaluate the performance of coolants. We are having the following quality control equipments for testing of coolants.

1. Density (Glass cylinder, Hydrometer, Thermometer, etc.)
2. Boiling point (Thermometer, Flask, condenser, heating mantle, etc.)
3. Foaming property (Stoppered Glass cylinder, Stop watch, etc.)
4. Water content (Flask, condenser, heating mantle; water trap, etc.)
5. PH (PH meter, Glass beaker, etc.).
6. Reserve alkalinity (Burette, standard solution, pH meter, Glass beaker, etc.)
7. Freezing point apparatus.
8. Glassware metal corrosion (Complete Assembly as per the specification)
9. Circulating metal corrosion (Complete Assembly as per the specification)
10. Cast Aluminium corrosion (Complete Assembly as per the specification)

### RNR Coolants has several technology benefits over conventional coolant

FREE FROM AMINES	ENHANCED CORROSION PROTECTION FOR COPPER & ALUMINUM ALLOYS. NO FORMATION OF NITROSOAMINES (CARCINOGENIC IN NATURE)
FREE FROM BORATES	PRESENCE OF BORATES CAUSES ACCELERATED CORROSION OF ALUMINUM AT HEAT REJECTION AREAS. ELIMINATION OF PHYTOTOXIC INGREDIENTS.
FREE FROM NITRITES	DOES NOT CAUSE FORMATION OF NITROSO-COMPOUNDS. AVOIDS FORMATION OF AMMONIA DURING LONG STORAGE. EXCELLENT CORROSION PROTECTION TO COPPER ALLOYS.
FREE FROM SILICATES	DOES NOT CAUSE POLYMERISATION AND PRECIPITATION. AVOIDS DEPOSITS ON HEATER TRANSFER SURFACES. NO PREMATURE DEPLETION.
COMPATIBILITY	SPECIALLY COMPATIBLE WITH BOTH ALUMINUM AND COPPER RADIATORS. ALSO EXCELLENT COMPATIBILITY WITH EPDM, NBR, SILICONE AND POLYPROPYLENE TYPE PLASTIC COMPONENTS.
LOW CHEMICAL DEPLETION	MUCH LOWER DEPLETION OF ACTIVE INGREDIENTS. DEPLETION NO POLYMERISATION OR PRECIPITATION OF CHEMICALS. PROVIDES ENHANCED PROTECTION EVEN ON SEVERE CONDITIONS AND ALSO PROVIDES LONGER SERVICE LIFE.
MUCH IMPROVED	REDUCED HIGH TEMPERATURE SURFACE CORROSION. BETTER PROTECTION AGAINST PITTING AND CREVICE AGAINST CAVITATION CORROSION. EXCELLENT AGGREGATED PROTECTION FOR ALL METALS AND ALLOYS.
CORROSION PROPERTIES	EXCELLENT HEAT TRANSFER PROPERTIES DUE TO
BETTER COOLING EFFECT	<ul style="list-style-type: none"> <li>- NO DEPOSITION OF CORROSION PRODUCTS.</li> <li>- NO HOT-SPOT SCALE DEPOSITS.</li> <li>- NO BLOCKAGE IN COOLING PASSAGES OR RADIATOR.</li> <li>- PROTECTION ONLY BY MICROFILM ON ANODIC SURFACES.</li> </ul>
ECO-FRIENDLY	CONTAINS NO HEALTH HAZARDOUS CHEMICALS. ALSO EASILY BIODEGRADABLE.



## Technomek Coolant

### Long life Anti-Freeze Concentrate Coolant

Technomek is a top of the line long life coolant to give maximum protection to your car against freezing, overheating, foaming, rust & corrosion. Not only does Technomek meet & exceed all requirement of JISK 2234:2006, it provides excellent lubrication to all moving cooling system components, thereby adding years to engine life.

Technomek can be used across all makes of cars and for both, diesel & petrol engines. High levels of slowly depleting inhibitors allow low concentration level of Technomek to effectively provide full protection. It is however recommended not to use less than a 25% (1 part Technomek +3parts water) dilution to maintain full anti-freeze performance.

Technomek coolant is also available in Ready to use form

Top-up, whenever required using only concentrate Technomek. Change Coolant every 1.5 years or 50,000 kilometers, whichever occurs earlier.

- 1.5 years - 50,000 km.
- No overheating or freezing
- Anti Corrosion
- Anti Freeze
- Excellent lubrication
- Mixing Ration 1:3

Technomek is available in pack sizes 500 ml., 1, 3, 5, 20 & 210 liters.

#### PERFORMANCE versus TECHNOLOGY

Over the last decades, engine coolant design has obtained increased attention by the automotive industry. The development of more powerful and more efficient engines as well as the extensive use of novel material (eg. aluminum alloys, new elastomers) have resulted in even more stringent requirements on the engine coolant fluid. This is why innovation and Ingenuity are core values for RNR industries and why most of our products are developed as per Original Equipment Manufacturers (OEMs) specification



#### What happens when the wrong engine coolant is used ?

Using the wrong coolant can impair the performance of the special additive packages, and this can result in increased corrosion to the radiator. The passive layer in the cooling system gradually becomes thinner and more porous and the engine coolant needs to be changed at more frequent intervals. Using the wrong engine coolants can gradually lead to corrosion and damage to the water pump, radiator, radiator hoses and cylinder gasket. This can lead to engine failure in the worst case.



## Glycool Coolant

### Heavy Duty Long Life Anti-freeze Concentrate Coolant

Glycool Super Concentrate is a n economical & eco-friendly long life Coolant to give excellent protection to all type of vehicles against freezing, overheating, foaming and rust & corrosion. It meets & exceeds all anti-corrosion requirements fo JISK 2234:2006.

Glycool super concentrate can be used across all makes of vehicles and for both diesel & petrol engines. High levels of slowly depleting corrosion inhibitors allow low concentration level of Glycool Heavy Duty Concentrate to effectively provide full protection. It is however recommended not to use less than a 25% ( 1 part Glycool Heavy Duty Concentrate Coolant + 3 parts water) dilution to maintain good performance.

Top-up, whenever required using only Glycool Heavy Duty Concentrate Coolant . Change coolant every 1.5 years or 50,000 kilometers, whichever occurs earlier.

Increases engine life & performance and fuel efficiency.

Maintains optimal engine temperature during ploughing in the field and commercial use.

Protects rubber parts and water pump.

Completely prevent rust and corrosion, blocked engine passages, and overheating.

Provides all season protection to your vehicle.

1.5 years - 50,000 km.

No Overheating

Zero Corrosion

Excellent lubrication

Mixing Ratio 1:3

Glycool Heavy Duty Concentrate is available in pack sizes 500 ml., 1, 3, 5, 20 & 210 liters.