



PRODUCT BULLETIN

▪ ULTRA COOL

Nulon R45 is specially formulated to protect all components within cooling systems of modern vehicles. R45 protects aluminium, solder, copper, cast iron, brass, steel and rubber hoses.

Nulon R45 contains no glycol and as such is recommended for use in motor sport applications. Because R45 contains no glycol it is more thermally efficient. In other words, it transfers heat more efficiently than glycol based coolants.

The cooling systems of modern vehicles are subject to much harsher conditions than those of 20 years ago.

- Modern cooling systems have smaller capacities because of reduced engine bay space.
- Air conditioning places a high demand on cooling systems.
- Aerodynamics necessitate smaller vehicle frontal area, consequently smaller radiators.
- Reduced frontal area and the many modern, engine-driven accessories reduce under-bonnet area, which in turn restricts airflow.
- Higher combustion temperatures resulting from leaner fuel mixtures and the advent of unleaded petrol place extra demands on cooling systems.
- City traffic congestion creates long periods of idling, again placing heavy demands on cooling systems.

These demands require a modern approach to formulating products to protect cooling systems. Modern anti-freeze/anti-boil coolants contain anti-corrosion treatments but are normally only necessary when sub-zero temperatures are encountered. However, if a vehicle manufacturer particularly specifies the use of anti-freeze/anti-boil it is essential to use the specified product as some engines suffer from localised "hot spot" boiling.

Nulon Ultra Cool is suitable for use in the cooling systems of all vehicles that do not specify anti-freeze/anti-boil coolant. Nulon Ultra Cool meets AS/NZS 2108.1:1997 Type B.

Benefits:

- Protects against corrosion of all metals within cooling systems
- Neutralises harmful acids
- Assists in protecting against cavitation erosion
- Protects against electrolysis
- Extends life of all cooling system components

- Exceeds the requirements of the Glassware Corrosion Test of the Australian Standards AS/NZ 2108.1:1997 Type B.

Directions for Use:

If the cooling system is dirty or rusty, clean the system with Nulon R40 Radiator Flush and Clean. Half fill the system with clean, soft or demineralised water. Add the required amount of Nulon R45 (refer to the owners' manual for capacity) and top up with water as specified above. Run engine to circulate and remove any airlocks, re-check level and top up if necessary, check for leaks and secure radiator cap. Repeat treatment every 20,000 km or once a year, whichever occurs first. Top up should always be with the correct ratio of R45 and water.

Warning:

Under no circumstances mix radiator products of different brands, and never under-treat with radiator products.

Application Rates:

Add at 5% of cooling system capacity, i.e. if system holds 10 litres, add 500 ml.

First Aid Directions:

For advice contact the Poisons Information Centre (Ph. Australia 131 126; New Zealand 0800 764 766) or a doctor (at once). If swallowed, do NOT induce vomiting. If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor or for at least 15 minutes. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor. Not to be used as a food container.

Packaging:

- 500 ml bottles (12 bottles per carton)
Part No. R45
- 1 litre bottles (12 bottles per carton)
Part No. R45-1
- 20 litre drums
Part No. R45-20