



## 30% Radiator Anti-Freeze

Technical Data Sheet



### PACKAGING:

1L, 4L, 60L, 208L

### DESCRIPTION:

Volkio Coolant Anti-freeze fluid for direct application, formulated based on monoethylene glycol and a selected package of inorganic additives which inhibit corrosion and oxidation, decaling and anti-foam, highlighting its specific formula of super stabilized silicates. NAP free type (free of phosphates, amines and nitrites), as well as free of molybdates. It provides effective protection for the cooling circuit in all types of internal combustion engines, heating systems, and solar panel installations that do not require the use of potable water in their circuit.

### BENEFITS:

- Excellent engine protection from the corrosion of cast, steel and its alloys, as well as aluminum, its alloys and other soft metals.
- NAP free inorganic technology (free of phosphates). Any problems with deposits deriving from the use of phosphates are avoided.
- Antifreeze protection of the coolant liquid down to  $-17^{\circ}\text{C}$  ( $+1.4^{\circ}\text{F}$ ), avoiding any damage to the engine in cold climates.
- Anti-boiling protection up to  $+135^{\circ}\text{C}$  ( $+275^{\circ}\text{F}$ ) in circuits at 2atm., protecting the engine in overheating situations.
- Excellent heat transfer capacity.
- Good anti-foam properties.
- Its high boiling point avoids fluid cavitation and hence the erosion of the circuit owing to the implosion of fluid bubbles against the interior walls of the circuit.
- The risk of the pitting of the cylinder sleeves and pumps is avoided which could give rise serious damage to the engine.
- Avoids the formation of lime deposits.
- In heating installations, lengthens the life of the boiler, radiators, pumps and the other elements to be found at the installation.
- Compatible with joints and elastomers usually used in cooling circuits.

### SPECIFICATIONS:

Volkio 30% Coolant meets or exceeds following International and Builder specifications

GM DEXRON®-VI

- ASTM D3306
- SAE J1034, J1038
- NATO S-759
- CAT ELC (EC-1)

- GM US 6277 M
- KSM 2142 (K)
- FW Heft R 443

- E/L 1415C (MIL Italy)

### TYPICAL PROPERTIES:

TEST	FREQUENCY	RESULT
Concentration	%	30%
Appearance	VISIBLE	RED
Equilibrium Reflux Boiling Point (ERBP) $^{\circ}\text{C}$	ASTM D 1120	104-105 $^{\circ}\text{C}$
Freezing Point	ASTM D 1177	-15 $^{\circ}\text{C}$
Ph	ASTM D 1287	$\geq 8.5-10$
Formation of foam, Volume (ml)	ASTM D 1881	< 30
Density (kg/l)	ASTM D4052	1.045 g/cm <sup>3</sup>

### APPLICATION:

Refrigeration fluid in closed cooling systems of internal combustion engines in cars, trucks, buses, farm machinery, construction and earthworks machinery or in any other vehicle whose cooling system requires a water-glycol based mixture, specially indicated for cast engines.

Household and industrial heating installations that work in a closed circuit.

Solar panel installations that do not require refrigerants compatible with potable water.

### HOW TO USE:

Direct use, do not dilute in water. It is recommended not to mix with any coolant or antifreeze liquids of a different nature. Check the freezing or boiling points or the minimum concentration of glycol required by the manufacturer of the engine or machinery.

Not suitable for cooling systems in aviation.