

# MWM Antifreeze Advanced – Silicate Free High-Performance Coolant for MWM Engines

With increasing engine performance and higher efficiencies, the thermal load on engine components surrounding the combustion chamber increases. The main purpose of the coolant is to extract the combustion heat from these components (component cooling) and to make it available to the customer as heat energy. The coolant thus ensures safe engine operation on a long-term basis and improves plant utilization.

Like lubricants, coolants are tested in intensive field experiments and are subsequently approved for use. Based on the long-standing experience of our development engineers and extensive analyses of the field experiences of the MWM service organization, the inhibitor technology for MWM Antifreeze Advanced was selected in collaboration with a strategic partner.

## MWM Antifreeze Advanced – Silicate Free

- ✓ Suitable for all MWM series
- ✓ Suitable for all plant configurations (exhaust heat exchanger in engine or heating circuit)
- ✓ Effective corrosion and cavitation protection through organic inhibitor technology
- ✓ Free of silicate, phosphate, amine, nitrite, and boron
- ✓ No hard deposits on components subject to high thermal stress, such as the cylinder liner
- ✓ Longer exhaust heat exchanger operating times due to lower total hardness
- ✓ Easy handling as ready-to-use mixture

MWM Antifreeze Advanced features optimized inhibitor technology to ensure frost and corrosion protection with maximum operating life.

## The Right Mixture

Higher glycol levels result in reduced heat conductivity. With its glycol content of 35 percent by volume, MWM Antifreeze Advanced provides the perfect combination of both frost protection down to -23°C and good heat transfer properties. **In MWM Antifreeze Advanced, only organic inhibitors are used for corro-**

**sion protection. These do not leave any hard deposits on components, which could suppress the heat transfer. As the corrosion protection inhibitors are not consumed during operation, the coolant has a long lifetime.**

To ensure reliable protection of the engine, the inhibitor concentration of the coolant is particularly important. If the concentration is too high, the components in contact with can suffer damage. If the concentration of the inhibitor is too low, corrosion and cavitation protection cannot be duly guaranteed. If antifreeze concentrate is used for the creation of on site coolant, the properties of the water used

for the mixture must also be taken into consideration, as otherwise deposits can accumulate on hot surfaces. As a ready-to-use mixture, MWM Antifreeze Advanced always has the right inhibitor and glycol concentration. This prevents incorrect dosing. MWM Antifreeze Advanced is suitable for all plant configurations and can be easily refilled during maintenance work.

## Always in Focus: The Efficiency of Your Plant

The inhibitor technology for MWM Antifreeze Advanced was selected to minimize the deposit on components subject to high thermal stress and to maximize the lifetime of the coolant.

MWM Antifreeze Advanced ensures outstanding heat transfer, frost and corrosion protection, and easy handling. The use of MWM Antifreeze Advanced boosts the availability and profitability of the plant. The product is also suitable for MWM diesel engines.



MWM Antifreeze Advanced – Silicate Free: Material Characteristics		
Product basis	–	Mono ethylene glycol
Product group	–	Free of silicate
Color	–	Red-orange
pH value	–	8.4
Density	kg/m <sup>3</sup>	1,056
Total hardness	°dH	<1
Glycol content	vol%	35
Frost protection down to	°C	-23

Available in	MWM part number	
Canister	20 l	1221 8511
Barrel	205 l	1221 8509
IBC	1,000 l	1221 8510



Do you have any questions concerning  
high-performance coolants?

Contact your MWM Service Center or send  
an e-mail to [service@mwm.net](mailto:service@mwm.net).

