

The ultimate protection for your chilled water systems

What are Glycols?

Glycols are used to reduce the freezing point of water but do not have any effect on the scale forming or corrosive nature of the water used in the system. The new JMCCool inhibited glycol range offers excellent protection against all commonly found metals in cooling systems.

Specific inhibitors that have been independently tested are added to the glycols that minimise the formation of scale and protect metals such as brass, copper, mild steel, stainless steel and aluminium from corrosion.

What level of protection do I need?

Freezing Point (°C)	Wt % Monopropylene Glycol	Vol % Monopropylene Glycol
-12.7	30%	29.4%
-16.4	35%	34.4%
-21.1	40%	39.6%
-26.7	45%	44.7%
-33.5	50%	49.9%
-41.6	55%	55.0%

Freezing Point (°C)	Wt % Monoethylene Glycol	Vol % Monoethylene Glycol
-14.1	30%	27.7%
-17.9	35%	32.6%
-22.3	40%	37.5%
-27.5	45%	42.5%
-33.8	50%	47.6%
-41.1	55%	52.7%

Why can't I just use tap water in my system?

Tap water is supplied in a condition that is suitable to drink immediately. No chemical treatment has been applied to

counteract the chemical conditions in the water, such as scale formation and corrosion, which will affect water systems.

If the system operates outdoors, or at low temperatures in

refrigeration/cooling systems, it is normally necessary to add chemicals to prevent the water freezing and damaging the system.

Our new **JMCCool** range achieves all these goals.

In fact, if all chemicals in tap water are removed by reverse osmosis or the water is softened this will actually increase the corrosive nature of the water. Therefore, treatment is vital.

Which JMCCool is right for me?

JMCCool P430

Inhibited Propylene Glycol

- * Generally maintains the same freeze protection levels as ethylene glycol but has a lower level of toxicity.
- * Preferable if potential 'incidental food contact' is a concern.

Blue Dye Variant

- * Coloured with a food grade blue dye, for easy identification should your system suffer a leak or failure.
- * We can provide this for P430 and E860 products.

JMCCool E860

Inhibited Ethylene Glycol

- * Can be used in any application where a low-toxicity content is not required.
- * Harmful if swallowed. For full information please refer to the safety data sheet.
- * Should not be used in processes where it could come in contact with potable water, food or beverage products.

Ready To Use

- * We can provide both products in a 'ready to use' format, simply tell us the freeze protection temperature you want to achieve.

Can I mix JMCCool with other products in my system?

- * We do not recommend that you mix different types/brands of glycols in your cooling systems. Mixing Glycols can cause the products to gel and clog your filters and could reduce flow rates.
- * You should always flush through your system with a cleansing product when changing products. This also helps remove any build-up of glycol degradation materials in your system.



- * We recommend our JMCCool SC cleansing product, which is quick and simple to use.