

# TEXA FLUID

## Chemical additives for industrial cooling circuits

### INTRODUCTION

**Texa industries**, thanks to its experience in manufacturing industrial cooling systems, has developed multiple liquid solutions for industrial systems to be used with or without mixing with water. Whenever water is used as the heat transfer medium in circuits, the use of these liquid solutions offers complete protection of the liquid system, also guaranteeing that the heat transfer capacity is maintained. These products have been designed to limit the onset of problems such as corrosion, the formation of deposits and scale, bacteriological phenomena, reduction in performance, increases in maintenance costs, unexpected stoppages and reduction of the average lifespan of the systems. The phenomenon which causes the greatest number of problems in circuits is CORROSION. The water present in the systems tends to form scale deposits and bacterial slime, and above all encourages corrosion caused by the metal being attacked by the oxygen it contains. The use of high-purity water (demineralised, RO purified and in some cases softened) prevents the formation of scale but significantly increases corrosion issues.

The main causes of corrosion are:

**OXIDATION** of the metals due to the oxygen dissolved in the water;

**ACID** produced by the breakdown of glycol over time.

**Texa industries** therefore decided to develop multiple solutions to meet customer requirements in order to prevent damage to industrial systems, particularly closed circuits (at atmospheric and other pressures).

**WARNING:** For detailed information on the toxicity and other safety factors relating to any type of fluid, refer to the MSDS provided by **texa industries**.



### TEXA FLUID 903-TX

Product code: C15001209-25kg can - C15002650-10kg can

This is a liquid solution based on 93% ethylene glycol with the addition of inhibitors and biocides. The product is compatible with all the most common metals (iron, steel, copper and its alloys, aluminium and its alloys), as well as plastic and rubber. Designed to protect liquid circuits in industrial machines, machine tools and all those systems where the recirculation of cold or hot water in multi-metal circuits is necessary. It is formulated with substances which provide three key actions to protect the system:

**ANTIFREEZE ACTION:** prevents the formation of ice at temperatures around zero;

**CORROSION INHIBITION:** prevents corrosion by forming a protective film on metal surfaces.

**BIOCIDAL ACTION:** inhibits growth of fungi, moulds and bacteria, preventing slime build-up.

Do not mix with softened, demineralised and RO purified water.



### TEXA FLUID 903-TX-MIXED

Product code: C15001218-25 kg can

This is a liquid solution based on 30% ethylene glycol with the addition of inhibitors and biocides, and mixed with 70 % water. Retains the same chemical characteristics as 903-TX.



### **TEXA FLUID BIOCIDE-ALGICIDE FLUID**

Product code: C15003950-25kg can - C15003930-1kg can

This is a biocide formulation based on isothiazolinone with an excellent algicidal and biomass dispersion action. It is used to control biological pollution in open recirculated or similar cooling circuits. It penetrates the biological masses thanks to its effective dispersive action, guaranteeing the best possible cleaning of the heat exchange surfaces. This liquid, as well as having a powerful biocidal and algicidal effect, also has low levels of toxicity. The use of this liquid is particularly recommended for softened, demineralised and RO purified water (laser applications).



### **TEXA FLUID CORROSION INHIBITOR**

Product code: C15003949-25kg can - C15003929-1kg can

This is a highly ecological formulation which prevents corrosion in closed recirculated hot and cold water circuits. The presence of a strong inorganic anodic inhibitor, which is ecologically compatible, together with organic inhibitors and polymer dispersants, provides excellent protection from corrosion for ferrous and cupric metals and alloys and excellent cleaning of the heat exchange surfaces, preventing the formation of any kind of deposits. Also compatible with non-metallic components.



### **TEXA FLUID FOOD**

Product code: C15004334-25 kg can

This is a multifunctional diathermic fluid based on FDA approved inhibited mono ethylene glycol. Recommended for use as a diathermic fluid whenever accidental food contact is possible. Not suitable for use as a direct food component or additive. It is compatible with most other diathermic fluids based on mono ethylene glycol. Exclusive use of this product is recommended for optimum protection against corrosion. It must be mixed only with low hardness distilled water.

It protects metals and alloys used in systems against all forms of corrosion. The combination of low toxicity and FDA approved ingredients with a high level of corrosion protection makes this product unique on the market. Competing products often provide insufficient protection for aluminium and copper. Given the frequent use of copper in the food industry, the excellent protection that TEXA FLUID FOOD provides for it makes it a particularly suitable product.