

PRODUCT & TECHNICAL DATA

Blu X-Chiller

TYPE: CHILLED WATER/HOT WATER/CLOSED RECIRCULATING SYSTEMS – CORROSION INHIBITOR; ANTIFOULANT; MICROBIOCIDES

Blu X-Chiller is a unique and specialized mildly alkaline nitrite-based corrosion inhibitor for closed water circuits. It is available in a liquid and in a solid form. It contains the corrosion inhibitor, an internal indicator, a biocide and a hardness management compound. In its neat form the indicator is used to confirm that the product is suitably alkaline and when controlled at the required levels the indicator will reveal whether the pH in the circuit is adequate. At the required control limits the pH will not increase so as to affect amphoteric metals such as aluminium and zinc compounds harshly.

TYPICAL PROPERTIES

Appearance:	Crimson Liquid
pH neat soln. at 25°C :	8.50 – 10.50
Specific Gravity at 25°C :	1.10 – 1.15

APPLICATION

Blu X-Chiller is nominally dosed at between 2500-3000mg/l in the closed water system to maintain a residual as nitrite at between 300 – 400mg/l as well as an effective biocide residual. In chilled water circuits hardness salt precipitation is not highly problematic, however, in hot water circuits this may prove otherwise.

The initial dosage is the most critical. Thereafter water losses in chilled/cold closed water circuits is estimated to be between 8% to 12% per month; whereas, in closed hot water circuits the water losses average between 8% to 12% per week. Based on this and routine water analyses the CW-Chiller can be supplemented to the circuit as required.

There is a specific test method for the determination of the residual **Blu X-Chiller** and/or the **residual nitrite level**. This is a titrimetric/colorimetric method and is immediately available.

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Blu X-Chiller is also available as a spray dried powder –and can be diluted to 25% m/m. The dosages and residuals can be controlled exactly as described above. Alternately the powder can be added to a recirculating system via the expansion vessel at 625 – 700 mg/l to maintain similar nitrite residuals. Product supplementation will be dependent upon the respective system water losses in each case.

STORAGE AND HANDLING

Blu X-Chiller can be stored for up to 24 months from the date of manufacture, in its original, sealed packaging, at room temperature in a dry area. Bags of the powdered version must be kept undercover and out of direct sunlight. This product can be safely stored in plastic type holding tanks designed to manage the specific gravity listed. **Blu X-Chiller** must be protected from strong acids, freezing and excessive aeration. Protective clothing such as gloves and goggles should be worn when handling

HEALTH AND SAFETY

Blu X-Chiller is of low toxicity. The product is mildly alkaline and eye contact or prolonged skin contact may cause irritation. Should contact occur, hands should be washed with soap and water and eyes well irrigated for fifteen minutes. Ingestion will induce vomiting and should be treated symptomatically. Spillages must be contained to allow for safe disposal. Avoid direct flushing to storm water drain. Please refer to product SAFETY DATA.

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