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# **WET-Treat<sup>®</sup> 4010**

## **Oxygen Scavenger for Boiler Water Conditioning**

### **Scope of Application:**

WET-Treat<sup>®</sup>4010 is an inorganic liquid product that prevents oxygen corrosion in boiler systems up to an operating pressure of 40 bars. WET-Treat<sup>®</sup>4010 contains only non-volatile raw materials. Therefore, it can be used in systems with high purity demands. WET-Treat<sup>®</sup>4010 is based on raw materials, which are listed in FDA § 173.310 as boiler water additives that may be safely used in the preparation of steam that will contact food.

### **Product Data:**

WET-Treat<sup>®</sup>4010 is a blended liquid product based on an inorganic, non-volatile oxygen scavenger.

**Appearance** : Clear, colorless to yellowish liquid.

**pH (1% solution)** : 6.0 ± 0.3

**Density (20°C/68°F)** : 1.200 ± 0.018 g/cm<sup>3</sup>

**Freezing Point** : <-2 °C

**Miscibility in water** : Miscible with water at any ratio

**Total SO<sub>3</sub><sup>2-</sup> content** : 25%

**Effect on Environment** : Please check the MSDS of the product.

### **Mode of Action:**

WET-Treat<sup>®</sup>4010 offers a corrosion inhibition by scavenging the oxygen content in boiler water respectively boiler feed water. To get an effective oxygen reduction, a continuously dosage of WET-Treat<sup>®</sup>4010 into the boiler feed water is absolutely necessary.

### **Dosage:**

The dosage of WET-Treat<sup>®</sup>4010 depends on several system parameters (e.g. temperature of boiler feed water, concentration ratio and total hardness content and alkalinity) and should preferably be selected with a green-chemicals (Pars Taban Chemical) representative. Generally the detectable sulfite content in boiler feed water should be from 2 to 4 g/m<sup>3</sup>. Approximately 20 to 25 g/m<sup>3</sup> WET-Treat<sup>®</sup>4010 boiler feed water is necessary for neutralization of 1-g/m<sup>3</sup> oxygen. If the degassing system performance is high, the addition of 5-10 g/m<sup>3</sup> WET-Treat<sup>®</sup>4010 can inhibit the corrosion in the boiler and the boiler feed water.

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**Application:**

WET-Treat<sup>®</sup> 4010 should be added behind the degassing system. The product should be added to the suction part of the boiler feed water pump by an automatic dosing system regulated by the quantity of boiler feed water. All parts of the dosage system that come in contact with the product must be made of acid resistant material e.g. PE or PVC. WET-Treat<sup>®</sup> 4010 can either be used diluted or can be mixed with WET-Treat<sup>®</sup> 4007.

**Analysis:**

SO<sub>3</sub><sup>-2</sup> ions content in WET-Treat<sup>®</sup> 4010 can be determined by Sulfite test kits.

$$1 \text{ g/m}^3 \text{ SO}_3^{-2} = 5 \text{ g/m}^3 \text{ WET-Treat}^{\text{®}} 4010$$

The exact determination of SO<sub>3</sub><sup>-2</sup> concentration can be made by iodometric titration, for reducing agents.

**ISO 9001-14001:**

Our quality system has been certified by TÜV-Thüringen on the basis of EN ISO 9001 and EN ISO 14001.

**Packing:**

Plastic canister of 60 kg / 200 kg plastic drums container.

**Transport and Storage:**

The product must have been kept in original container and closed warehouse under room temperature. Please refer to the original MSDS for further information.