

HYDRAGUARD LIMITED

BW300

BW300 is a multi-functional product for use in steam boilers. It consists of catalysed sulphite solution to provide oxygen scavenging, together with a polymer and phosphate to provide conditioning of suspended solids. In addition, **BW300** has an alkalinity builder to give pH adjustment in low alkalinity feedwaters. The removal of dissolved oxygen in boiler water greatly reduces the serious problem of oxygen induced corrosion. This increases equipment operating life. To improve reaction time with dissolved oxygen, **BW300** is catalysed. The product has also been formulated to be a low odour product for safe handling.

ADVANTAGES

- contains alkalinity builder to provide increased pH in boiler water
- removes dissolved oxygen from boiler water to reduce equipment corrosion and pitting
- catalysed for quick reactivity
- low product odour
- contains only ingredients approved under the United States Food & Drug Administration Regulations.

HOW MUCH TO USE

BW300 should be added to the boiler in sufficient quantity to produce a sulphite residual of 30 to 60 ppm as SO₃ within operating boilers. For boilers on lay-up, a sulphite residual of 150 ppm as SO₃ is suggested. As a guide, a dose rate of 150 ml/m³ per ppm of dissolved oxygen is recommended.

METHOD OF APPLICATION

BW300 should be added to the farthest point back within the feedwater system to allow for maximum reaction time with the dissolved oxygen. The product should be added continuously based upon make-up and should be pumped directly from the product container. Best results are obtained with feedwater in the pH range of 8.0-9.0.

PROPERTIES

Appearance:	Clear pale mauve solution
Density:	1.00-1.10
pH of neat solution:	9.0-11.0

HANDLING AND STORAGE

BW300 has a low toxicity but standard chemical precautions should be taken when handling all chemicals. Wear gloves and goggles. Certain individuals may show sensitised reaction to the sulphites in the product. Maintain product above 0°C to prevent freezing. Consult Health and Safety sheet for further information.

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