

Dantobrom[®] RW

A Solid Bromine Biocide for
Cost-effective Microbial Control





Product Description

Dantobrom® RW is a cost-effective broad spectrum bactericide, fungicide, algacide and molluscicide for a variety of industrial applications. Dantobrom® RW is a unique, solid bromine-based biocide that provides a controlled release of active bromine and chlorine. In addition, Dantobrom® RW provides the benefits of bromine and has higher total halogen with greater solubility than other solid, bromine biocides, such as BCDMH.

Dantobrom® RW is EPA registered to control bacterial, fungal, and algal slimes in a wide variety of water systems, including recirculating and once-through fresh and salt water systems, evaporative condensers, influent systems, industrial wet scrubber systems, sewage systems, auxiliary water systems, air washers, and brewery pasteurizers. Dantobrom® RW is also EPA registered for use as a slimeicide in the manufacture of food and non-food grades of paper and paperboard.

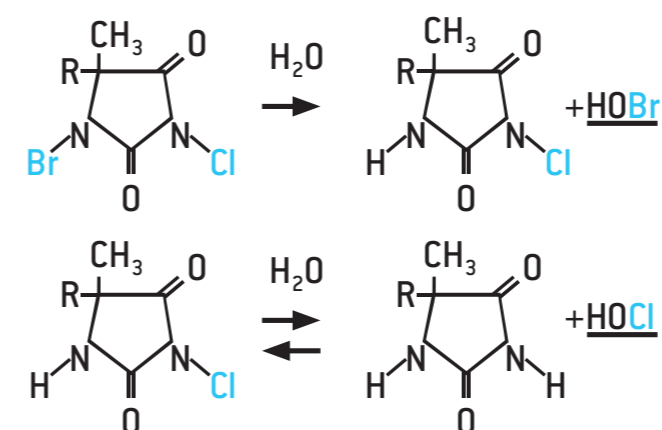
User Benefits of Dantobrom® RW

Product Feature	Treatment Advantage	User Benefit
Bromine-based oxidizer	<ul style="list-style-type: none"> – Effective in both acid and alkaline systems – Cost effective broad spectrum bactericide, fungicide, algacide and molluscicide – Efficacious at low concentrations 	<ul style="list-style-type: none"> – Extends microbial control – Maximizes biocide performance
Methyl Ethyl and Dimethyl Hydantoin Based Chemistry	<ul style="list-style-type: none"> – Efficiently releases halogen – Compatible with many other water additives – Does not contribute to system acidity or hardness – High solubility and fast dissolution – Minimizes impact on system corrosivity – Stable biocide concentrations – Suitable for both slug and continuous addition 	<ul style="list-style-type: none"> – Improves biofilm control effectiveness – Lowers corrosion inhibitor usage – Reduces expenditures for other WT additives
Solid form	<ul style="list-style-type: none"> – No added binders or diluents – High halogen content – Controllable addition of biocide – Improved wet and dry physical stability 	<ul style="list-style-type: none"> – Increases handling safety – Optimizes feeding technique – Minimizes inventory space

Dantobrom® RW Chemical Composition

1-bromo-3-chloro-5,5-dimethylhydantoin	54.2%
1,3-dichloro-5,5-dimethylhydantoin	28.9%
1,3-dichloro-5-ethyl-5-methylhydantoin	15.9%
Inert Ingredients	1.0%

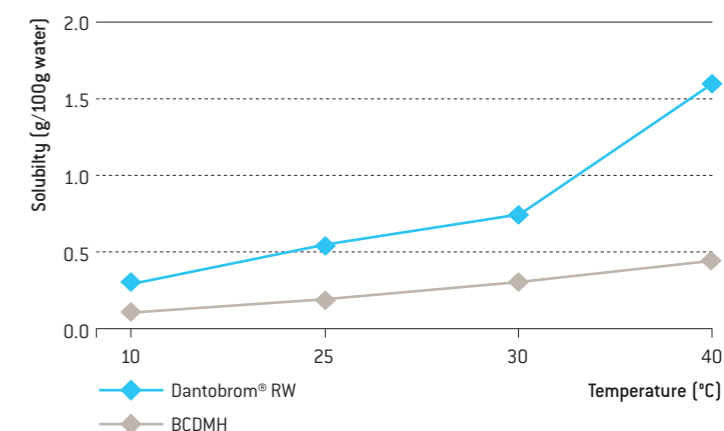
Dantobrom® RW Halogen Release Mechanism



Bromine Benefits Compared to Chlorine

Bromine	Chlorine
Efficacious to 8.5 pH	Efficacious to 7.5 pH
High bromamines efficacy	Low chloramines efficacy
Low corrosivity	High corrosivity
Low volatility	Readily volatilizes

Solubility



Typical Properties

Total Available Halogen	
Expressed as Chlorine, %Cl ₂	62.8
Expressed as Bromine, %Br ₂	141
Melting Range, powder, (°C)	120 – 148
Solubility in Water (g/100g at 25 °C)	0.54
pH, (1% Slurry at 25 °C)	3.6
Decomposition Temperature (°C)	180
Briquette Wt. (g)	12
Density (g/cm ³)	1.6
Bulk Density (kg/m ³)	960
Nominal Dimensions (cm)	4.2 × 2.2 × 1.3
Moisture Retention (%) [6 hour soak in water at 25 °C]	?



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