

## **HARDNESS CONTROLLER**

- \* **STRONG CHEMICAL REACTION WITH HARDNESS COMPOUND**
- \* **KEEP THE SCALE COMPONENTS SUSPENDED**

### **DESCRIPTION**

**AWT-20** is a white powder, phosphate base boiler compound. It is specially formulated to prevent and remove scale deposits and incrustation in boilers of any service pressure.

### **DIRECTION FOR USE**

The powder is mixed with feed water prior to use, and then fed into the return pipe to the boiler.

**DOSAGE** : Dosage is adjusted according to the boiler type. As a rule of thumb, the recommended limits of excess phosphate should be :-

Boiler Pressure up to 28 bars : 20 - 60 ppm  
Boiler Pressure 28 to 60 bars : 20 - 40 ppm  
Boiler Pressure above 60 bars : 10 - 20 ppm

**AWT-20** has little or no influence on the pH value of the boiler water. If the phosphate concentration drops below/rises above the recommended level, increase/reduce the dosage by 8 gm/tonne. Normally an increase of 16 gm/tonne will raise the P-alkalinity by about 10 ppm.

Normal dosage in a 100 tonne boiler is between 100 - 120 gm of **AWT-20**.

In case the above values deviate from those provided by the boiler manufacturers, always stick to the figures provided by the manufacturers.

### **CHEMICAL PROPERTIES**

**AWT-20** contains a pure and neutral grade phosphate which is miscible with water in any proportion. **AWT-20** contains approximately 63.5% of orthophosphate. The pH in aqueous solution is approximately 9.



## **PHYSICAL PROPERTIES**

Appearance : White Powder  
Specific Gravity : 0.7  
Solubility In Water : 10 at 24°C. (75.2°F)

## **SAFETY AND HANDLING INFORMATION**

Protective Measures	Wear chemical resistant gloves, safety goggles and footwear. Use in adequately ventilated areas. Wash hands with water after use. Avoid breathing in vapour.
Spillage & Disposal	Sweep up spilled material and placed it into a suitable, clean and labelled container. Avoid contact with skin, eyes and clothing. Avoid inhalation of dust.
<b><u>FIRST AID</u></b>	
Eyes	Rinse eyes with copious amount of water for at least 15 minutes. If irritation persists, seek medical advice.
Skin	Flush with large amount of water, use soap if available. Remove grossly contaminated clothing, including shoes and launder before reuse. Seek medical attention if necessary.
If Inhaled	If overcome or affected, immediately evacuate victim from exposure area, using proper respiratory protection. Administer artificial respiration if breathing has stopped. Keep at rest. Seek prompt medical attention.
If swallowed	Rinse mouth; then drink 1 or 2 large glasses of water. Do not induce vomiting. Get prompt medical attention. Never give anything via mouth to an unconscious person.
<b><u>HANDLING</u></b>	
Storage & Transportation	Product should be stored and transported in original containers. Do not store near heat, sparks, flame or strong oxidizers. Store away from strong acids and foodstuff. Keep container lid tightly closed. Store in a cool and dry area, away from direct sunlight. Open container slowly to control possible pressure release.
Packaging	Supplied in 25kg non-returnable containers.

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