

OXYTREAT

DESCRIPTION

AWT-45 is an oxygen scavenger. It minimizes oxygen corrosion and prevents formation of red oxide on interior boiler surfaces. It controls iron and copper oxidation arising from steam condensate and feed-system.

The liquid contains aqueous solution of Hydrazine Hydrate $N_2H_4 \cdot H_2O$.

AWT-45 is miscible with water in all proportions.

APPLICATION

Used in boiler equipped with thermal de-aerator, the solution should be continuously dosed at a rate of 0.7 to 1.4 ppm. Control by hydrazing N_2H_4 0.1 - 0.5 ppm.

Boiler pressure with less than 48 bars : **AWT-45** may be fed into the return pipe from the condenser or into the de-aerator.

Boiler pressure above 48 bars : **AWT-45** should be fed into the crossover between the high and low pressure turbine.

Daily dosage of **AWT-45** at 1 litre for a 10 tonne boiler.

Hot water system with temperatures below 100°C (212°F) : maintain 5 - 15 ppm, pH 8.5 - 9.5.

At water temperatures above 100°C (212°F) : maintain 0.5 - 1 ppm, pH 8 - 9.

Boiler without de-aerator, the dosage is dependent on the feed water temperature. **AWT-45** must be diluted with condensate before dosing. It may be fed into the condensate line or crossover stream line.



CHEMICAL PROPERTIES

AWT-45 is a aqueous solution of Hydrazine Hydrate $N_2H_4 \cdot H_2O$.

DOSAGE TABLE FOR SYSTEM WITHOUT DE-AERATORS

<u>FEED WATER TEMPERATURE (° C)</u>	<u>AWT-45 ml/tonne</u>
25	133
35	115
45	98
55	84
65	66
75	50
85	31
95	14

PHYSICAL PROPERTIES

APPEARANCE & ODOR : Clear Colourless Liquid with ammonia smell
BOILER POINT : 105°C (221°F)
VAPOR PRESSURE : NA
VAPOR DENSITY (AIR 1) : NA
SPECIFIC GRAVITY : 1.00 @ 20°C
% VOLATILE (BY VOL) : 100%
EVAPORATION RATE
(N-BUTYLACETATE =1) : NA
SOLUBILITY IN WATER : Completely Soluble
THRESHOLD LIMIT VALUE : 1.3mg/m³

AWT-45

Page 2 of 3



® APEX CHEMICALS (S) PTE LTD

132 TUAS SOUTH AVENUE 2
WEST POINT BIZHUB, SINGAPORE 637171
TEL: 64835350 FAX: 64835359
E-mail: apexchem@singnet.com.sg



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	Spillage is slippery. Wear gloves, confine spill and stop leak at source if possible. Pump liquid back into original container. Absorb remaining liquid with inert material such as dry sand or sawdust. Neutralize if necessary with vinegar or other diluted acid solution.
<u>FIRST AID</u> 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. Seek prompt medical attention. Never give anything via mouth to an unconscious person.
<u>HANDLING</u> 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 25 and 200 litres non-returnable containers.

To the best of our knowledge, the information contained herein is believed to be accurate and reliable. It is the user's obligation to evaluate and use this product safely and comply with all applicable laws and regulations. The above-named supplier and its vendor makes no other warranty or representations of any kind or implied, concerning the product including no implied warranty of merchantability. The product is offered solely for your consideration, investigation and verification. No license or immunity under any patents is granted or implied.

