

Alka-Plus

Boiler Water Treatment

TECHNICAL DATA SHEET



Alka-Plus is a single component alkalinity booster of concentrated Sodium Hydroxide for boilers operating at 600 psi or less. Alka-Plus meets USDA requirements and is approved for use in a variety of facilities from comfort heating to processing functions.

APPLICATIONS

Typically used for steam boilers with either soft or hard water make up in applications to low pressure boilers of 600 psi or less. Alka-Plus can also be used as a cleaner in a new boiler, in which it will help breakdown cutting oils and debris found in the manufacturing of boilers. Alka-Plus can also be used for wet storage of boilers in the off-season.

- *Provides alkalinity to correct hard water problems for a better operating boiler*
- *Conditions water throughout the boiler by controlling pH levels*
- *Part of a scale prevention program to inhibit rust and corrosion as well as control scale*
- *Improves blowdown by suspending solids in a non-adherent fluid sludge for easy removal*
- *Meets USDA application requirements*
- *Compatible for use with other steam line, oxygen scavenging or dispersing products*

Problems Caused By Scale

Reduction in water flow & heat transfer
Higher fuel costs
Unplanned downtime
Expensive repairs

Solution

Alka-Plus conditions water by “donating” or providing needed alkalinity to chemically soften water with our chemicals to become a non-adherent fluid sludge. This sludge will disperse to the bottom of the boiler for removal during blowdown.

Manufactured as a single component solution, Alka-Plus is the economical choice for larger boilers and is intended for use with other single component, economical solutions such as our RLT-2000, Oxy-Gone and Scale-Trol. Alka-Plus is part of a scale prevention program that will help protect components and surfaces to extend boiler system life.

Effectively Prevents:

Scale & Mineral Deposits	Dissolved Oxygen
Calcium Carbonate	Iron Oxide Deposits

Components Protected:

Boiler Tubes	Water Lines
Condensate Return Tank	Steam Lines
Make Up Tank	Pumps
Radiator	Piping
Traps	Valves

Alka-Plus

WARNING-MATERIAL CAN CAUSE SEVERE BURNS TO EYES AND SKIN! In case of contact, speed in removing material from eyes and skin is of extreme importance. Flush eyes and skin with plenty of water for at least 15 minutes and then immediately obtain medical attention. Remove and isolate contaminated clothing and shoes, wash before reuse.

DOT, EMERGENCY RESPONSE GUIDE NUMBER 154

Health Hazards: Contact causes burns to skin and eyes. If inhaled, may be harmful. Fire may produce irritating or poisonous gases. Runoff from fire control or dilution water may cause pollution.
Fire or Explosion: Some of these materials may burn, but some of them ignite readily. Flammable/poisonous gases may accumulate in tanks and lighter cans. Some of these materials may ignite combustibles (wood, paper, oil, etc.).
Emergency Action: Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind. Keep out of low areas. Positive pressure self-contained breathing apparatus (SCBA) and structural firefighting protective clothing will provide limited protection. If water pollution occurs, notify the appropriate authorities.
Fire: Some of these materials may react violently with water.
Small Fires: Dry chemical, CO₂, water spray or regular foam. Some of these materials may react violently with water.
Large Fires: Water spray. Stay on regular foam. Move containers from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from end of tanks. Do not scatter spilled material with high-pressure water streams. Dilute fire control water for later disposal.
Spill or Leak: Do not touch or walk through spilled material; stop leak if you can do it without risk. **Small Spills:** Take up with sand or other noncombustible absorbent material and place into containers for later disposal. **Small Dry Spills:** With clean shovels place material into clean, dry container and cover loosely; move containers from spill area.
Large Spills: Eliminate all of liquid spill for later disposal.
First Aid: Move victims to fresh air; call emergency medical care. In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes. Remove and isolate contaminated clothing and shoes at the site. Keep victim quiet and maintain normal body temperature.

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I hereby warrant and limitation of Liability and Remedies. Seller represents that this product conforms to its chemical description and is consistent. To the purpose referred to in the literature under normal conditions. Seller assumes the risk of use not contrary to such description. Seller makes no warranty or representation of any kind, express or implied, concerning the product including, but not limited to MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way, except as written with a specific reference to this warranty. The customer hereby agrees the seller shall be a claim for damages and to proceed for purchase price of the product, without regard to whether such a claim is based upon breach of warranty or not. Any controversy or claim arising out of or relating to this contract, or breach thereof, shall be settled by arbitration in accordance with the commercial arbitration rules of the American Arbitration Association, and judgment upon the award rendered by the Arbitrator may be entered in any court having jurisdiction thereof.

DIRECTIONS:

FIRST APPLICATION: Ensure boiler has fresh water at maximum operating level. Use 1-2 pints (120 – 240 ppm) of Alka-Plus per 1,000 gallons of make up water.

ROUTINE MAINTENANCE: Test boiler water on a regular basis to determine if Alka-Plus is needed. Approximate feed rate is 1-2 pints (120 – 240 ppm) per 1,000 gallons of make up water. Exact product dosage rates will depend on the amount of alkalinity that is present in both the make up and boiler water. "P" Alkalinity values of 500 ppm or more, and/or minimum of Free Hydroxide "OH" values of 200 ppm should be maintained in the boiler water.

Blowdown boiler for 1 minute prior to collecting a water sample for analysis. If water appearance shows any deposition, use Alka-Plus in dosages prescribed above.

HMS RATINGS: Health-3; Flammability-0; Reactivity-1; Protection-1

CONTAINS: Sodium Hydroxide (1310-73-2)



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