



FORMULA 445

Liquid Scale Remover

For Heating and Cooling Systems

PROPERTIES

- Quickly dissolves hard water scale and deposits
- Minimizes corrosive action on metal parts
- Available in convenient control packages
- Controlled foam agent holds foam to a minimum
- Economical — fast acting — easy to use
- Proper concentration pinpointed with color control papers

COMPOSITION AND CHARACTERISTICS

FORMULA 445 is a special concentrate of hydrochloric acid with corrosion inhibitors and cleaning agents added. This product insure maximum cleaning and minimum corrosive action. Effective against the usual calcium and magnesium deposits as well as certain other

APPLICATIONS

FORMULA 445 can be used in practically every heating or cooling system, including

- All types of boilers
- Locomotive boilers
- Rolling Mills
- Air compressor cooling systems
- Brine Tanks
- Ammonia condensers.
- Water cooling systems and tanks
- Steam condensers
- Refrigeration Systems.
- Autoclaves

DIRECTIONS

- Drain and flush all water, sludge, and dirt out of sump. **THIS IS VERY IMPORTANT** • Close all bleed lines and fill sump with fresh water
- Calculate the total gallon capacity in the system, including pipes, sump, and storage tanks. Starting treatment should include 1 gallon of FORMULA 445 for each 10 gallons of water in the system.

NOTE : Consult the handy dosage chart for approximate starting treatment if the system capacity is unknown.

- To prevent excessive foaming, add one vial of antifoam agent for each gallon of FORMULA 445.
- Start pump and operate system as usual. Check circulating water with test papers and maintain a pH of 2-3 during entire cleaning operation by adding additional FORMULA 445 if necessary as acid is neutralized.
- A gradual reduction in head pressure indicates progress in the removal of system scale. Inspect tubes if possible.
- When scale and deposits have been satisfactorily removed and head pressure is normal, drain entire system into the sewer and refill with fresh water. Circulate for 10 to 15 minutes and drain system again.
- Refill system with water and restore normal operation of machinery.

NOTE : Use protective goggles and rubber gloves when using this product. DO NOT leave FORMULA 445 in any system for extended periods (8 to 10 hours maximum). Serious damage may result if product is not used as directed

CAUTION

KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed. Poison - contains hydrochloric acid. Causes burns. Avoid breathing vapors. Avoid contact with skin, eyes, or clothing. In case of contact, rinse skin and eyes with plenty of water for 15 minutes. Consult a physician.

PACKAGING

Gallon

pail