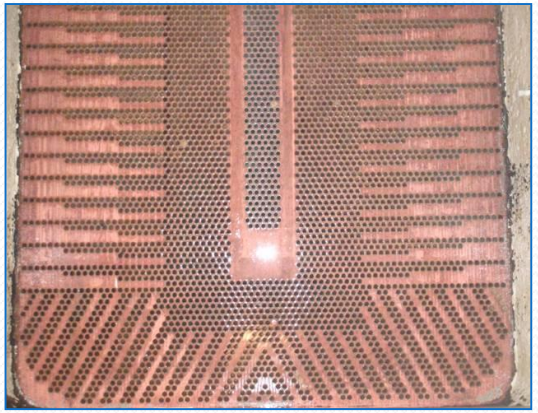
What is Scale?

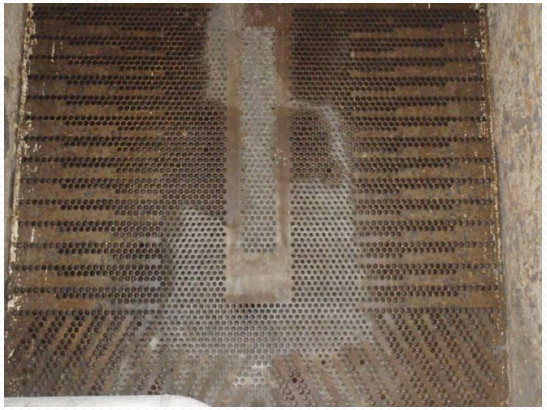
Scale is a coating or precipitate deposited on surfaces that are in contact with hard water.

Water that contains carbonates or bicarbonates of calcium or iron oxide is especially likely to cause scale.

When water is heated or evaporation takes place, scale minerals precipitate layers of rocklike deposits inside pipes, water heaters, equipment, and on fixtures and glassware.

While most common scale is a result of calcium carbonate, other combinations of ions commonly found in water offer a variety of scale.





Illustration—Heat Exchangers

Scale deposits reduce efficiency by insulating the heat transfer surfaces.

Scale deposits restrict water flow

Piping and heat exchanger tubes become plugged.

Ignoring scale can:

- Lead to the destruction and possible failure of heat exchanger tubes.
- Process contamination can also occur.

Scale = lower efficiency = higher energy costs.

SCALE BUILD-UP

AFTER CLEANING WITH Anion D'Scale

Conventional Methods for Removing Scale

Liquid Descalers

Rodding

High Pressure Steam

Scraping

High Pressure Water Jet

Replacing Equipment