

Anion D'Scale

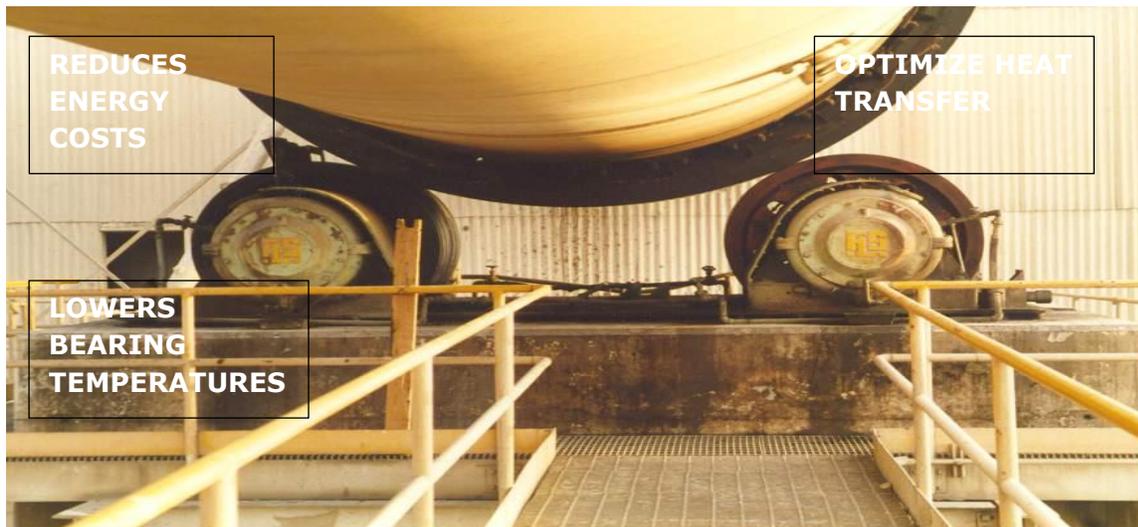
Application: Kiln Trunnion Bearings D'Scaling

Result: Successfully used to lower energy costs, increase thermal efficiencies, & lower bearing temperatures in Kiln Trunnion Bearings

Recent Application Results January 22nd 2019

Many times, the Kiln Support Roller Assemblies are an often overlooked kiln maintenance item for which the possibility exists for an expensive unplanned outage. Proper care and preventative maintenance is extremely important for efficient heat transfer as well as lowering the horsepower required to run the Support Roller Bearing Assemblies cooling system. Scale build-up inside the cooling pipes is often the most common source for this inefficiency and can be prevented with NAK's complete Kiln Trunnion and Bearing Service Maintenance Contracts during your regularly scheduled annual kiln outages.

The most common form of scale in cooling water systems is calcium carbonate (CaCO_3). In the water, calcium ions combine with bicarbonate to form calcium bicarbonate. If scale deposits are left to accumulate, water flow is restricted and heat exchanger water passage ways become plugged or blocked. This causes your lubricant to break-down faster and has unfavorable heat transfer between the bearings and lubricant. Ultimately, ignoring scale depositions can lead to unscheduled outages and production losses. Anion D'Scale dissolves these deposits through surface contact at a rate of 2.7 pounds of (CaCO_3) per gallon of Anion D'Scale.



Anion D'Scale was applied in 16 support roller assemblies. Post application, the plant documented a 19% reduction in kiln motor amperage used to turn the kiln, and between 11-18% in reductions of average bearing temperatures.

Anion D'Scale is a liquid de-scaling compound that quickly and effectively removes scale from water cooled Support Roller Assemblies, coal mill bearings, pipes, liquid ring pumps, catalytic crackers, green liquor lines, cooling towers, compressors, and any system that develops mineral scale and calcium carbonate deposits. Anion D'Scale is completely biodegradable and after its use can be disposed of in most municipal waste water systems. Anion D'Scale can eliminate the costs and dangers involved with pressure washing piping and related equipment. It is the most effective and cost conscious methods of removing calcium carbonate scaling from your system.



Conclusion: Using Anion D'Scale as part of your Comprehensive Kiln Preventative Plan, is extremely important to help prevent more costly repairs in the future.