

CASE STUDY



CORROSION PREVENTIVE FERROCOTE® 5856 BF T1

CHALLENGES

A major producer of bearings wanted to make improvements at one of its manufacturing sites:

- » Improve long-term corrosion protection
- » Eliminate an aqueous process cleaning step
- » Reduce manufacturing costs

The bearing producer was using an aqueous process cleaner, followed by a heavy oil-based, long-term corrosion preventive oil so:

- » Quaker introduced final corrosion preventive FERROCOTE® 5856 BF T1 and the bearing producer was able to meet their objectives
- » The process cleaner and cleaning step were able to be eliminated
- » The heavy oil could be replaced by the new corrosion preventive, making the handling process easier and lowering the applications costs

THE SOLUTION

The use of FERROCOTE® 5856 BF T1 resulted in:

- » Elimination of process cleaning solution, a savings of \$75,000/yr.
- » 20% overall corrosion preventive cost reduction
- » Elimination of the cleaning process transfer step, reducing labor costs by 15%
- » Improved process control resulting in 1.5% fewer part rejections

THE PRODUCT

FERROCOTE® 5856 BF T1 is a solvent/oil-based final preventive used in spray washing and slushing equipment to remove residual coolant and grinding/honing debris from assembled bearings and components. This results in the provision of long-term indoor protection for bearings and components.

SPRAY WASHER AND SLUSHING EQUIPMENT

Operation	In process cleaning and corrosion preventive operation on assembled bearings.
Part	Bearings
Part Alloy	Bearing Steel
Rust Preventive	Neat

THE EXPERTISE

Corrosion preventive fluids are designed to protect metal parts during storage and transport during the manufacturing process. Proper selection and application of the fluid can result in substantial cost benefits. Typically, metalworking lubricants represent a very minor part of the cost in a metalworking process, typically less than 1%. The impact of a fluid can be a multiple of its costs, making the price of a metalworking fluid insignificant. That is why Quaker focuses on developing fluids with the highest performance without compromise. Fluids that sharpen your competitive edge.