



ARMOR GLIDE FEED TUBES

Eliminate scratched feedtubes

Clyde Industries's Armor Glide feedtube is designed with a surface treatment harder, thicker and more durable than conventional chrome plating processes offered in the past. The Armor Glide feed offers longer packing life resulting in longer sootblower run times, steam savings, reduced maintenance cost and improved boiler cleaning.

The Armor Glide surface treatment is a metal plating process whereby a very hard material is thermally applied to the stainless base (feed tube) under controlled conditions. The applied material metallurgically bonds with the base material and becomes an integral part of it.

Previous recovery service sootblowers and long travel utility sootblowers used chrome plated feedtubes, with the plating limited to a thickness of .001 to .002. The result was that thermal expansion differences between the hard chrome and base feedtube material caused cracking or peeling of the chrome.

However, the Armor Glide process is thermally bonded to the base feedtube and will not peel or flake off. Its unique design boasts a surface treatment harder, thicker and more durable than conventional chrome plating processes offered in the past. Therefore, the Armor Glide feed offers extend feedtube life, longer packing life resulting in longer sootblower run times, steam savings, reduced maintenance cost and improved boiler cleaning. Changing just one part creates a system-wide improvement whose results can easily be recognized.

The average Armor Glide feedtube hardness value is twice that of conventional feedtube on the market today. The improved hardness value offered by the Armor Glide feedtube means better wear resistance, longer life and greater durability in operation. The Armor Glide feed tube will last longer and resist scratching better than any other feedtube in the market.

STEAM SAVINGS AND FEEDTUBE SAFETY

As a user of sootblower feedtubes, you understand the problems associated with feedtube scratch, which lead to packings leaks and the cost associated with packing leaks. Packing leaks cause steam waste, maintenance worries and downtime, each of which increases recovery boiler operating cost.

Scored feedtubes shorten packing life and leads to steam leakage. Packing leaks on scratched feedtubes can be dangerous due to the escaping steam. Small leaks can become major safety issues if not promptly corrected. Armor Glide feedtube eliminates feedtube scratching which extends packing life and minimizes safety concerns with packing steam leaks.

Steam waste due to feedtube packing leaks is a significant amount of money. The following calculation shows how much costs from leaking steam for a typical 2500 TDS/Day recovery boiler.

Assumptions:

- Sootblowing steam consumption: 18 ton/hr
- Cost of steam: \$11/ton Steam
- Steam leakage: 5%
- Operating days per year: 355

Steam cost = 18 (ton/hr) X 24 (hr/day) X 5% X \$11/ton X 355 days/year = \$86,724/year

Plus: \$38,000 for cost of labor and material to replace packing.

Total savings = \$124,724/year

With savings above and the costs for replacing scratched feedtubes, the payback time of upgrading the regular feedtube to Armor Glide feedtube could be as short as 6 months.

Benefits

- Double the hardness of the standard feedtube and feedtube service life
- Scratch resistant
- Improved hardness value meaning better wear resistance, longer life and greater durability in operation
- Offers longer packing life resulting in longer sootblower run times, steam savings, reduced maintenance cost and improved boiler cleaning
- Eliminates safety issues due to steam leakage



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