

PICKLE ACID INHIBITOR

ACTIVOL 1803

INTRODUCTION

A major producer of high quality steel sheet was looking for increased efficiency in its pickling operation. The company was already using an acid inhibitor and believed that better inhibitor technology could decrease acid consumption, lower total costs and improve product quality.

IMPACT

The introduction of Activol 1803 resulted in:

TOTAL BENEFITS EQUAL TO 8 TIMES INHIBITOR COSTS

Acid consumption with previous inhibitor	3.98 gallons per ton
Acid consumption with Activol 1803	3.60 gallons per ton
Savings in Acid consumption	194,000 gallons per year/\$70,000 per year
Additional cost of Activol 1803	\$1 per gallon/\$9000 per year

OTHER BENEFITS

Other benefits that come with the introduction of Activol 1803:

- Uniform pickle service
- Shiny steel surface
- No smut or ingrained scale
- Good rinsability
- Pleasant odor

PROCESS & EQUIPMENT INFORMATION

Operation: 84 inch, hydrochloric acid, continuous pickle line
 Capacity: 1 million tons per year



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CUSTOMER REFERENCES

ISG, Duferco Farrell, Wheeling Pittsburg Steel, Samuel Steel, World Class Processing, Nelson Steel, Nova Steel, AHMSA, Corus Steel, Sidor

EQUIPMENT REFERENCES

Pro-Eco, Danieli, Wean

COST-BENEFIT ANALYSIS

Process Chemicals represent a very minor part of the costs in a steel-making process, typically considerably less than 1%. This case illustrates the importance of the correct selection of a pickle acid inhibitor. The impact of a correct selection is usually a multiple of the fluid costs making the price of an inhibitor virtually irrelevant. That's why Quaker focuses on developing products with the highest performance without compromise, fluids that sharpen your competitive edge.

CASE

