

WET TEMPER ROLLING

QWERL 9000

INTRODUCTION

A major producer of electrical grade steel wanted to temper all silicone bearing steel in one pass. The mill was designed without tension bridles making the required one-pass, 8% extensions impossible with their existing temper mill fluid.

The company was looking for:

- High extensions (8%)
- One pass rolling
- Excellent shape control

Quaker Chemical introduced Qwerl 9000, a product designed to perform this difficult temper rolling application in one pass.

IMPACT

The introduction of Qwerl 9000 resulted in:

SAVINGS EQUAL TO 1.7 TIMES ADDITIONAL FLUID COSTS

Annual cost of previous fluid per year:	\$63,000
Annual cost after introduction of Qwerl 9000:	\$165,000
Annual cost reduction from reducing to one-pass:	\$272,000
Total savings per year:	\$170,000

OTHER BENEFITS

- Reduced yield loss
- Increased roll life
- Increased mill capacity

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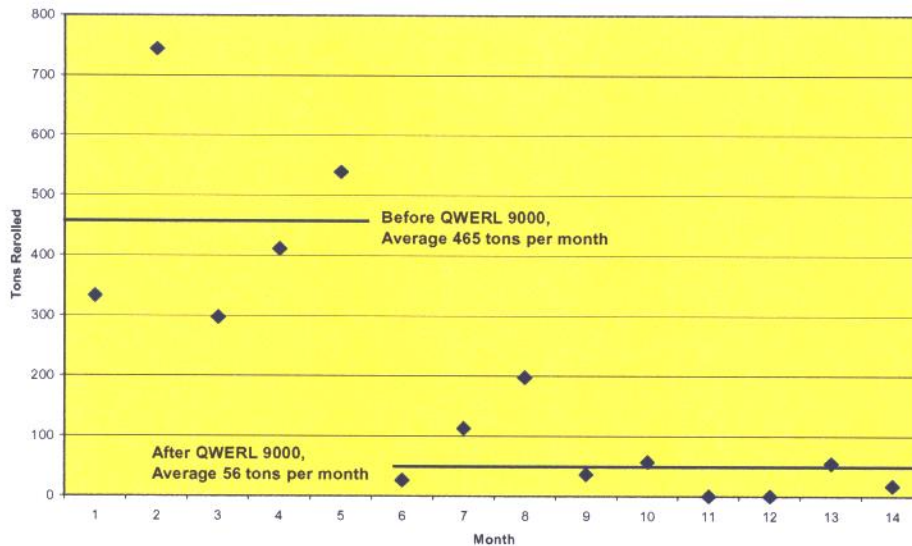
PROCESS & EQUIPMENT INFORMATION

Operation: 2-stand temper mill without tension bridles

Capacity: 1,000,000 tons per year

IMPACT

Reduction in Rerolling with QWERL 9000



APPLICATIONS

Qwerl 900 is based on synthetic esters and advanced emulsification technology. This combination allows temper mill operators to make large extensions and hard grades of steel. This product can be used on electrical, high carbon, high strength and drawing quality steels.

COST-BENEFIT ANALYSIS

Temper fluids represent a very minor part of the total steel processing costs. Typically considerably less than 1%. This case illustrates the importance of the correct selection of the temper fluid. The impact of a correct selection is usually a multiple of the fluid costs making the price of a temper fluid virtually irrelevant. That's why Quaker focuses on developing products with the highest performance without compromise, fluids that sharpen your competitive edge.



CASE