

## Pickling Line

### Up to 50% Line Speed Increase on Silicon Steel

QH EVERBLOCK™ A 8905: DESCALING ACCELERATOR

#### The Challenge

A major steel producer located in China operates a push-pull pickling line producing non-grain oriented silicon steel, using HCl (100-230 g/L) in four cascade tanks at 80°C.

The customer was having difficulty removing the scale from the hot rolled silicon steel and had reduced the line speed to 50 m/min.

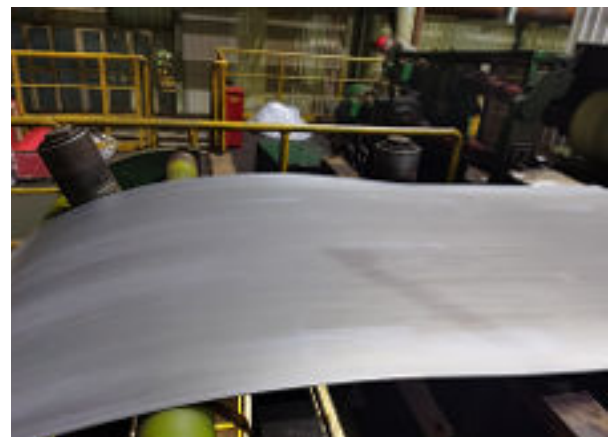
#### The Solution

Quaker Houghton proposed QH EVERBLOCK™ A 8905, a descaling accelerator additive that helps maintain productivity while delivering high quality strip surface on high strength steels. Following a full process survey, Quaker Houghton recommended the addition of 0.2% QH EVERBLOCK™ A 8905 into tank 2.

The implementation immediately improved the rate of scale removal and strip surface quality, enabling the line speed to be increased by up to 50% (75 m/min) depending on steel grade. Following the continued use of QH EVERBLOCK™ A 8905, the customer reported a total cost saving in their production of 10%, including acid and additive costs, labor and energy.

#### The Benefits

- More effective removal of scale
- Improved strip surface quality
- Increased line speeds up to 50%
- No process equipment modifications required
- Reduced production costs



Before: no accelerator, line speed 50 m/min



After: with QH EVERBLOCK™ A 8905, line speed 75 m/min