CASE STUDY

Metal Packaging – Cans:
Improving Sustainability For Can Manufacturers

CLENE 301

The Challenge

A leading 2-piece aluminium beverage can manufacturer was looking to improve their washing process with the objective of contributing toward meeting corporate sustainability targets. The customer needed a new washer chemical that would reduce water consumption, reduce energy consumption, have a high biodegradability and reduce greenhouse gas emissions.

The Solution

To overcome their challenges Quaker Houghton recommended CLENE 301 cleaner with the latest generation surfactant package and unique foam profile. A soft conversion over from the current product was conducted and all key parameters were monitored along with wastewater performance and final can quality. Reductions were seen across the customer's key targets while can quality improved. The surfactant package in CLENE 301 enables low temperature cleaning without the usual foam concerns associated with reduced temperatures. The global beverage can R&D team carefully selected materials to ensure a consistent foam profile across a wide temperature range while maintaining fast wetting of the can.

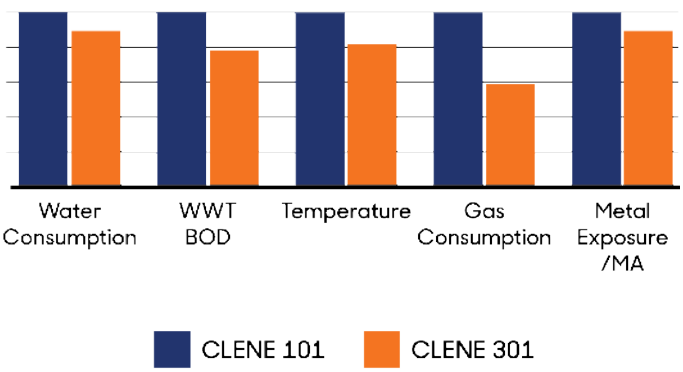
The Benefits

- A 10% reduction in total water consumption
- Wastewater treatment BOD reduced by 21%
- Stage 2 temperature reduced by 17%
- Total washer gas consumption reduced by 40%
- Metal exposure reduction by 10%

The Product

CLENE 301 is a blend of sulphuric acid and highly biodegradable surfactants designed to clean aluminium beverage cans in a spray process. CLENE 301 produces clean bright cans with a reduced environmental footprint.

CLENE 101 vs CLENE 301



Quaker Houghton
Forward Together