

CASE STUDY SERIES

AUTOMOTIVE METAL PROCESSING SOLUTIONS

BONDERITE® TecTalis Thin Film Process for Multi-Metal Exterior Components Increase Production Efficiency & Reduce Environmental Impact

Metal Forming | Metalworking | Surface Treatment



Customer Situation

A tier supplier using a zinc phosphating process for a multi-metal exterior component was experiencing poor part quality, low throughput and excess sludge generation.

The supplier was seeking a metal pretreatment process that could increase production, reduce sludge and assure part quality was achieved.

Recommended Solution

Henkel implemented the BONDERITE Flex Process, and subsequently the BONDERITE TecTalis Thin Film Process, over a five-year period.

Through the elimination of a cleaner bath and multiple rinse stages, the supplier increased production ~3x, while significantly decreasing electricity use, water use & sludge generation.



Sustainability Impact

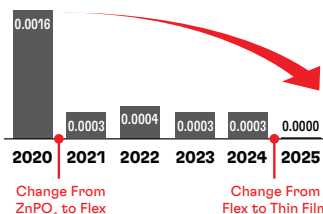
From Flex Process (2024) to TecTalis Thin Film Process (2025)

↓
~32% less electricity

~17% less water

~32% less sludge

Sludge / Production (Kg/Ft²)



Near elimination of sludge generation from 2020 to 2025 (projected)

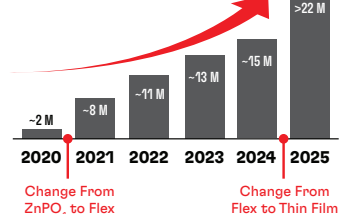


Process Efficiency

FROM ~2.1M
bumper components
produced in 2020

↓
TO >22M
bumper components
produced in 2025
(projected)

Bumper Components Produced



~3x increase in total bumpers produced