CUSTOMER USE CASE

TecTalis

TecTalis Thin-Film Process Success Story

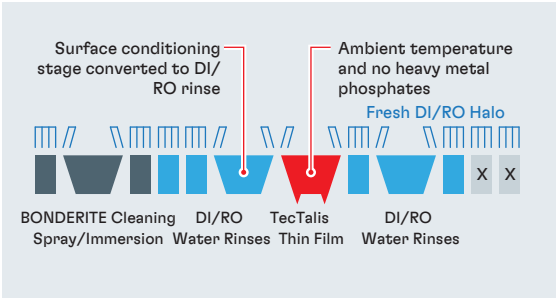
Phosphate-free, Ni-Free conversion coating process

1 CUSTOMER CHALLENGES

- Major automaker in China needed to meet tightening environmental restrictions related to heavy metal phosphates.
- Process and durability performance required to be equivalent to the BONDERITE Zinc Phosphate Process.
- Process costs needed to be reduced while simultaneously decreasing ecological footprint.

2 RECOMMENDED TECHNOLOGY

- Henkel recommended the brownfield conversion of a standard Zn phos line to the TecTalis Thin-Film Process
- Key facilities updates included:
  - Conversion of surface conditioning tank to DI/RO rinsing.
  - Elimination of heat exchanger and laminar flow in conversion coating.
  - Replacement of filter press with bag fi filters.



- Key material changes included:
  - Replacement of alkaline cleaner with TecTalis Process optimized cleaner
  - Chemical cleaning of surface conditioning and conversion tanks.
  - Charging of TecTalis Process chemicals in previous BONDERITE Zinc Phosphating stage.
  - Elimination of passivation materials.
- About the TecTalis Thin Film Process
  - Provides high-performance corrosion protection on all major metals and up to 100% aluminum.
  - Sustainable process that includes no heavy metal phosphates, no heating in the conversion stage, no surface conditioning step and the potential for reduced water usage.

GET IN TOUCH WITH US:

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Henkel

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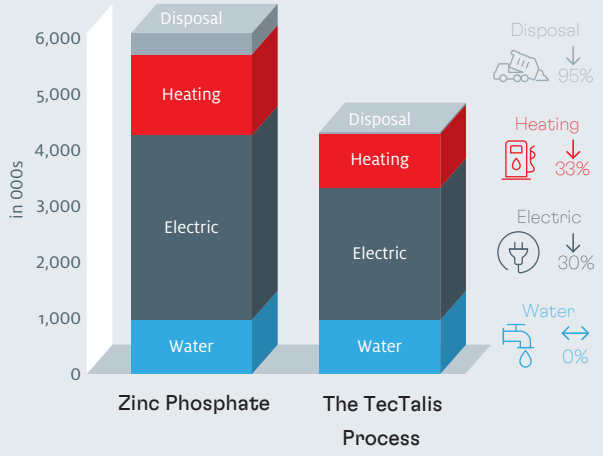
3 CUSTOMER BENEFITS

Cost Savings

» Annual cost savings of ~190,000 euros.

Performance

» Throw-power performance after conversion to the TecTalis Process is equivalent to BONDERITE Zinc Phosphating system.



Collaborative Approach

Close technical collaboration across the customer OEM Team and Henkel Team to execute a flawless TecTalis Thin-Film conversion.

Technical Collaboration

OEM Team

1 Throw-power recovery plan
2 Waste treatment plan
3 Operator training plan

Henkel Team

1 Facilities modification plan
2 Chemical cleaning plan
3 Production ramp-up plan
4 Site safety plan

TO FIND OUT MORE ABOUT AUTOMOTIVE SURFACE TREATMENTS, VISIT:

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