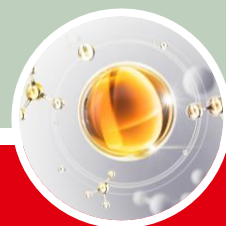


BONDERITE PULS PROCESS

Cold Forming Spotlight

BONDERITE L-FM FL PULS



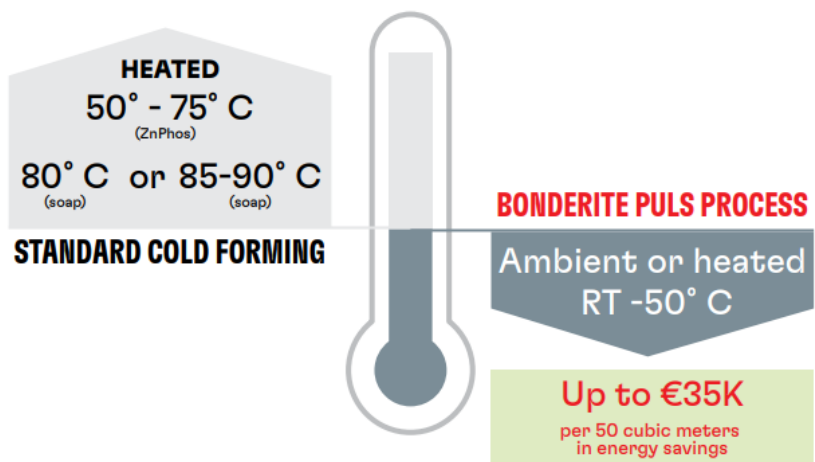
- Henkel's BONDERITE PULS Process uses a polymer-based cold forming lubricant, which simplifies the process to 3 steps instead of 10 steps:

1. Pre-treatment (Shot-blasting or Pickling)
2. Treatment using Henkel's BONDERITE L-FM FL coating
3. Drying

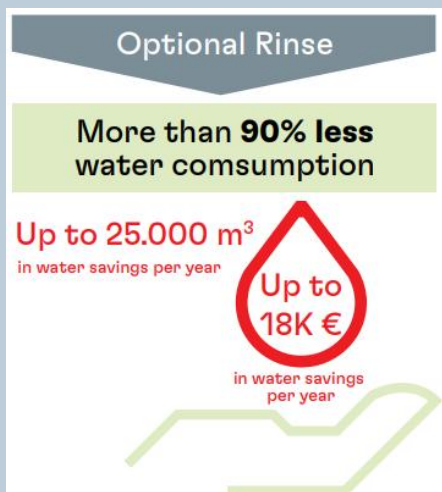
Enables benefits related to **energy savings**, **waste reduction** and **water use**.

ENVIRONMENTAL IMPACTS

Energy Saving



Water Use

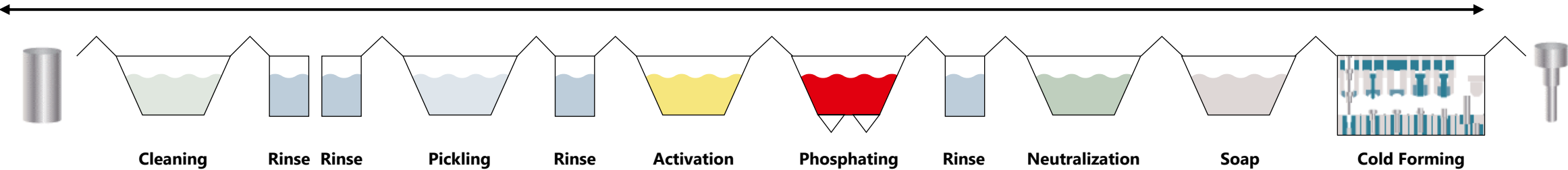


Waste Reduction

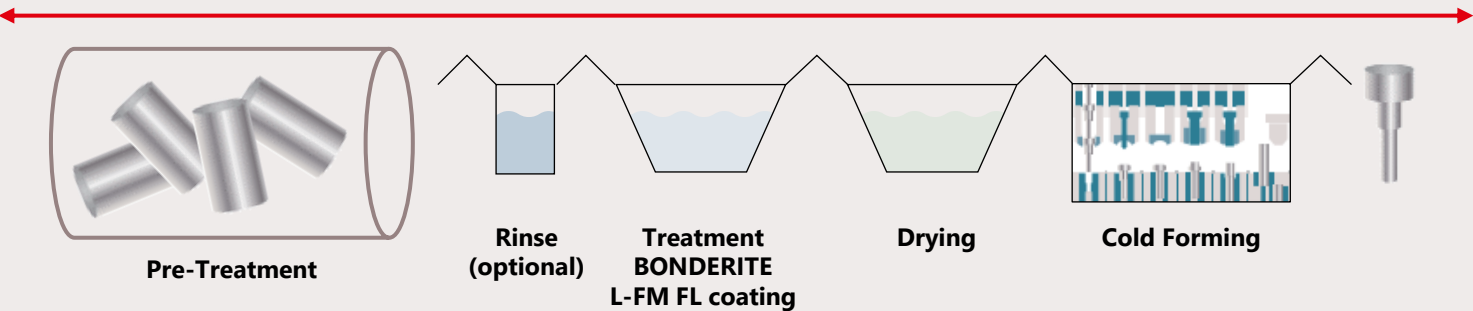


REDUCED MANUFACTURING FOOTPRINT

Traditional Cold Forming: Up to 10 steps



BONDERITE PULS Process: From 10 to 3 steps



**Reduced
Manufacturing
Footprint**