



## BONDERITE® L-FM FL 2020

Through its BONDERITE® line of metal forming products, Henkel offers an extensive line of lubricants for hot precision and cold forging processes, which are designed to optimize parts quality and tool life.

With BONDERITE® L-FM FL 2020, Henkel has developed an innovative and sustainable solution with superior cost performances, reduced CO2 impact and a much smaller water footprint.

This solution is a boron-free, water-based polymeric coating suitable for heavy cold forging extrusion of fasteners

### Technology:

- » Boron free
- » Water based polymer dispersion
- » One-step application
- » No phosphate sludge created
- » Biocide free
- » Designed for in line or batch applications
- » Wide temperature of operation (from 20°C to 50°C)

### Benefits:

- » High efficiency gains with:
  - Longer tool life
  - No production stops for bath maintenance
  - No disposal of reactive soap & phosphate sludge
- » Easy to remove after forming
- » Easy bath controls & maintenance
- » Improved part quality
- » Sustainable: low water consumption

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