# **BONDERITE**

## **CUSTOMER USE CASE**

# **BONDERITE<sup>®</sup> L-FG F 605**

Graphite-free, water-based die lubricant for hot forging of ferrous metals on presses and hammers



#### CUSTOMER CHALLENGE

Leading global supplier sought to decrease costs & improve employee health & safety during forging of bearing components on chassis applications.

### **RECOMMENDED TECHNOLOGY**

- Graphite-free forging lubricant, BONDERITE<sup>®</sup> L-FG F 605
- > Ideal for less strenuous forming applications



#### **Operates effectively at higher dilution ratio**

Non-toxic emissions

**Optimum lubrication allows good metal** movement & superior release

GET IN TOUCH WITH US

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### **CUSTOMER USE CASE**

#### BONDERITE<sup>®</sup> L-FG F 605

Graphite-free & water-based die lubricant for hot ferrous forging

### **3** OUTCOMES

	BONDERITE <sup>©</sup> L-FG F 497 (graphite-free lubricant)	BONDERITE <sup>©</sup> L-FG F 605 (graphite-free lubricant)
Die Life	Shorter	Longer
Billet weight (kg)	2.3	1.8
Cycle time (seconds)	3.8	2.1
Billet temperature (°C)	1180 - 1280	1180 - 1280
Adjusted dilution ratio	16% = ca. 1:5 (F 497)	8% = 1.12 (mix of F 497/F 605) 7.2% = 1:13 (F 605) 6.8% = 1.14 (F 605)

Customer testing indicated an increase in die life, higher dilution ratio and savings on cost per part with BONDERITE<sup>®</sup> L-FG F 605 versus BONDERITE<sup>®</sup> L-FG F 497.

#### TO FIND OUT MORE ON OUR PROCESSING SOLUTIONS, VISIT:

#### www.henkel-adhesives.com

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