

## ScaleShield™

Custom protection and lubrication of metals during hot forming and forging



SCALE-REDUCTION COATING FOR  
FERROUS METAL



SIMPLE, IN-LINE APPLICATION  
PRIOR TO HOT FORMING



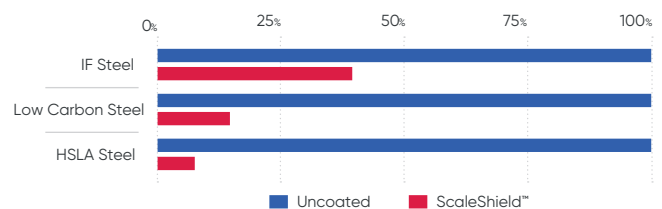
PATENT PENDING

Building on our existing product range for the protection and lubrication of metals during hot forming and forging, Vibrantz has developed a range of innovative scale-reduction products. Our proprietary ceramic and glass-based products are suitable for hot or cold application to slabs, billets, and other pre-forms.

ScaleShield™ forms a protective coating during reheat that prevents further scale formation. The coating and any pre-existing scale can be easily removed using in-line, mechanical descaling or post-forming by surface treatment.

Vibrantz continues to build on its global reputation as a leading manufacturer and supplier of innovative products to the steel, foundry, forging and general metallurgical industries. Please speak with your local Vibrantz representative for more information.

**% STEEL LOSS ON REHEAT\***  
Comparing Uncoated vs Coated with ScaleShield™



\* based on previous tests, results may vary in different operating conditions

**DECARBURISATION MEASURED AS HARDNESS**

