

# Atlantic Lanson

## Lubricants for Hot and Cold Stamping



### About the Product

Atlantic Lanson lubrication is an aqueous dispersion of specially prepared graphite with correctly selected particle size distribution. Thanks to graphite and a set of additives, the dispersion forms a stable uniform coating when sprayed to the surface. As a result of spraying, the product forms a black graphite film on the stamp with excellent lubricating and adhesive properties, which improves the quality of the metal flow during high-temperature deformation due to the high purity and particle size distribution of graphite.

### Scope of Usage

- for hot stamping and pressing parts from alloys of non-ferrous and ferrous metals, including steel, stainless steel, titanium and nickel.
- for use with hammers in stamping presses with several stamps and the manufacture of parts by deep stamping and forging or stamping.
- for use in hydraulic, mechanical, screw, friction, crank presses.

In high concentration it can be used for deep stamping, and at low - for stamping blanks with a flat shape.



30%  
Longer tool life



3 million wheelsets  
produced with the lubrication



15 solutions  
To increase your effectiveness

### Composition

Atlantic Lanson brand lubricants are aqueous systems of solid lubricating components with a balanced mix of anticorrosion, antifriction, adhesive and film-forming additives. It is a concentrate that must be brought to the required consistency by dilution with water.

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All of our expertise will be at your service.

#### Advantages

- Reduces frictional force and facilitates metal sliding
- Provides good stamp engraving filling
- Reduces tool wear
- Insulates the tool and reduces heat transfer between the product and the press
- Reduces metal oxidation and loss of alloying elements, reduces scale formation
- Prevents setting and sticking of the metal on the tool and facilitates the extraction of the finished forgings from the die
- High adhesion
- Good suspension stability
- Completely non-toxic
- It has good separation properties
- Non-corrosive
- Suitable for a wide range of water quality, materials and process parameters
- Reduces loads during hot pressing of metal by pressure, which leads to a decrease in stress inside the tool and reduction of breakdowns

#### Application

The lubricant can be diluted with water in a ratio of 1: 0.5 to 1:10, depending on the required level of properties, materials and applications. The optimum degree of dilution with water is determined by repeated use. Typically, lubricants are diluted in tanks and then transferred to stationary or portable spray units. The diluted lubricant, due to its good stability can be stored in tanks without stirring for 6-24 hours and applied to the hot stamp by standard spraying operations, forming a smooth film that provides the best results. The effectiveness of the lubricants for forging and stamping substantially depends on the thickness and uniformity of the lubricant layer on the contact surface. The thickness and uniformity of the lubricant layer is controlled by the density of the suspension, viscosity, the settings of sprayers and nozzles, the change in air pressure and lubricant consumption.

#### Characteristics

Parameters	Results
Density at 20 ° C, g / ml	1,10
Appearance	aqueous dispersion ranging from dark gray to black in color
Carrier-fluid	Water
Solid lubricant substance	graphite
Hydrogen index (pH), units pH	11
Solid Lubricant Content, %	16-21 Depending on client conditions

#### Deliveries

Product is delivered in 1000-liter Eurocubes.

#### Conclusion

More than 3 million railway wheelsets have been stamped using the lubricant "Atlantic Lanson".

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