

# Atlantic Lanson

## LUBRICATION FOR WHEEL ROLLING PRODUCTION

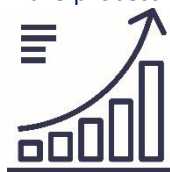


### About the Product

Atlantic Lanson grease 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 anti-adhesive properties, which improves the quality of metal flow during high-temperature deformation due to the high purity and particle size distribution of graphite.

### Scope of Use

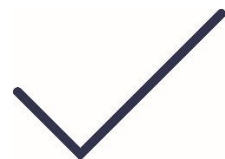
- for processes of deep stamping of railway wheels on press-rolling lines SMS-Eumuco, Shuler and others during upsetting, stamping and rolling, and draft wheel calibration.
- for use with hammers and presses (crank or forging) due to the balance of lubricating and separation properties
- for use in the processing of aluminum, copper alloys and the production of large forgings



2,5 times  
Increased tool durability



50 %  
Decrease in the consumption  
coefficient



3 million wheel-sets  
Produced with the lubricant

### 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.

All of our expertise will be at your service.

#### Advantages

- Increases the resistance of the deformation tool on the molding press with a force of 9-10 tns by 25%
- Provides good filling of the engraving of the stamp, improves the degree of filling of the caliber by 6.7%
- Reduces tool wear
- Reduces the amount of return of wheels for machining by 10.4% and geometry defects by 2 times
- Prevents setting and accelerates stamping up to 40 sec. / Cycle
- Lack of smell and air pollution in the working zone
- 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 metal on the tool and facilitates the extraction of the finished forgings from the die
- High adhesion
- Good suspension stability
- 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 Process

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	1,11
Appearance	water dispersion, dark grey 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

#### Delivery

Products are delivered in 1000-liter Eurocubes.

#### Conclusion

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

---

All of our expertise will be at your service.