



Lubricants for Direct Chill Casting of Aluminium

Perlube & Vama Lubricants

Pyrotek's Perlube® and Vama® lubricants are specially formulated oils and greases designed for the direct chill casting of aluminium and aluminium alloys. They provide a slip interface where metal and mould meet to ensure the highest possible surface quality. They can be applied to mould surfaces manually (i.e., brush, roller, or hand) or fed continuously by pump and injector. Used within the aluminium industry for over 30 years, the Perlube and Vama line of lubricants includes a range of products for common ingot and billet casting methods, as well as custom grease blends, oil viscosities, and recipe chemistries, as needed for a given application.



Originally developed for military equipment applications, Perlube and Vama lubricants leverage the natural chemistry of base vegetable oils, using a proprietary treatment method. This process improves the surface adhesion, thermodynamic stability, and wear resilience of the oil, particularly compared to generic canola, rapeseed, mineral, or castor oils. Perlube and Vama greases and oils excel in harsh environments, especially those involving high frictional wear, flash points, and pressure loading.



Benefits:

- Reduced oil consumption.
- Reduced sludge formation in filters, casting pits, and heat-exchangers.
- Decreased water contamination for less frequent water system maintenance and improved water quenchantability.
- Elimination of multiple oil-pumping recipes between alloys.
- Improved environmental impact through lessened use of cleaning solvents, biocides, and other water additives.
- Reduce safety stock.
- Available in custom blends and viscosities.

Why Pyrotek?

Pyrotek's global network of application engineers works with casthouses to determine the best materials, products, and designs to suit their needs.

For more information, contact your local Pyrotek application engineer.