Product Data

Molub-Alloy 491 C

Special lubricant

Description

Molub-Alloy™ 491 C is a lubricant especially designed for applications in heavy industry where high temperatures make the use of combustible or traditional lubricants impossible or extremly difficult. A relatively high concentration of Molub-Alloy solid lubricants is suspended in water, allowing even distribution over metal surfaces. These solid lubricants have a good affinity to metal surfaces.

Application

- For injection and extrusion molding of aluminium as well as for the lubrication of molds in the glass and rubber industries (separation of surfaces in tire molds), the lubrication of bearing saddles between gear rim and outer casing of cement and lime kilns.
- For normal operating processes which require a disassembly of tight fitting elements as well as for friction surfaces subject to very slow and discontinuous rolling motions and a constant thermal stress of more than 150°C.
- The initial mixing ratio recommended is 1:10 and after a short operating period a protective lubricant layer is formed on the friction surfaces. Depending on the application the fluid can be further diluted, upto 1:40 is even possible, for maximum economic efficiency. After mixing with water the fluid can be applied by brush or by directly spraying on the friction surfaces.
- If the temperature is above 150°C the water starts to evaporate immediately leaving a thin layer of solid lubricants evenly distributed on the surface.
- Please observe that mixing Molub-Alloy 491 C with water results in an inhomogeneous mixture which has to be stirred before use.

Advantages

- Application up to a temperature of +450°C
- Lubricating effect due to solid lubricants
- The layer of solid lubricants facilitates the assembly and disassembly of components and machine tools and prevents the seizure of fitting surfaces.
- In extrusion molding the layer of solid lubricants ensures an improvement of the work piece surface and prevents the cracking of the finished parts.

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Castrol Industrial, Technology Centre , Whitchurch Hill , Pangbourne , Reading , RG8 7QR , United Kingdom

www.castrol.com/industrial