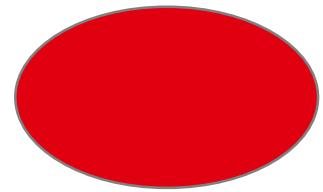


Facing & Auxiliary Products



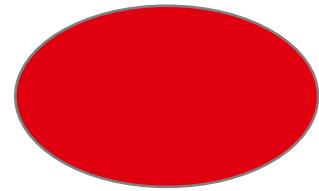
Use

Facing and auxiliary products are used for:

- 1) the maintenance of machinery;
- 2) the protection of mechanical parts;
- 3) lubrication at high temperatures and extreme pressures.

They are service products, with low volumes but very high potential in view of the small number of competitors in the specific aluminium foundry sector

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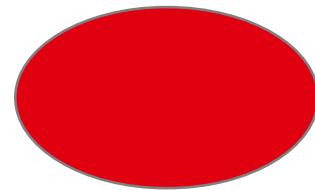


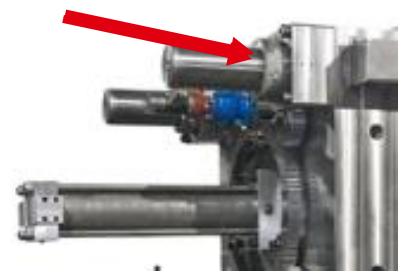
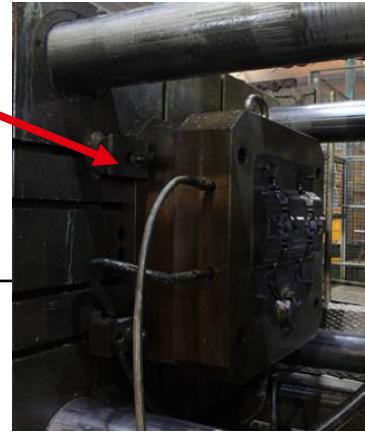
General technical information

Facing and auxiliary products generally consist mainly of solid lubricants (pigments). The most widely used solid lubricants are:

- 1) GRAPHITE:** it gives excellent slip and lubrication even at temperatures of about 500°C. It leaves a hard-wearing film and ensures good protection.
- 2) MOLYBDENUM DISULPHIDE:** specifically for very high loads, it is however unable to withstand temperatures over 250°C.
- 3) BORON NITRIDE:** very expensive, it withstands temperatures up to 1000°C. It forms a lasting ceramic coating.
- 4) METAL PIGMENTS:** excellent protection against corrosion and aggressive agents. Excellent protection at high temperatures.

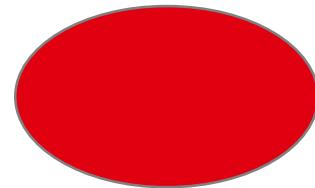
Facing & Auxiliary Products

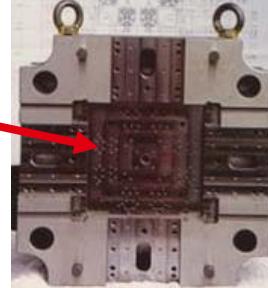


Product	Typical applications	Lubricant	Example
BONDERITE L-GP M 210 Formerly Molydag 210	Dry film lubricant and facing agent, for press column assembly and for components subject to heavy loads in general. This product is particularly suitable for protecting columns prior to fixing with nuts. The product is sprayed onto both the nut and the thread and allows swift removal of nuts even after many working hours.	Molybdenum disulphide	
BONDERITE L-GP AGU+ Formerly Graco AGU +	Antiseizure paste, with copper, recommended for protecting assemblies subjected to high temperatures. This product does not provide slip and is therefore not recommended for lubricating bearings, for example. It is more suitable for protecting die assemblies on machine beds, where it inhibits corrosion and allows the rapid dismantling of equipment.	Graphite and laminar metals	

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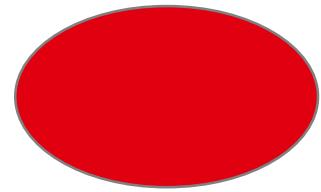
Facing & Auxiliary Products



Product	Typical applications	Lubricant	Example
BONDERITE L-GP G 6A Formerly G6A	<p>Lithium-based assembly paste, for general use. Intended for the assembly of parts subjected to heavy stresses.</p> <p>This product is suitable above all for use to protect the parts of the die subjected to the greatest stress, such as the die holders or the parts of the die in contact with the beds of the machine.</p>	Molybdenum disulphide, Lithium	
BONDERITE L-GP D18A Formerly Pulve D18A	<p>Pre-treatment and dry lubrication of parts subject to friction during operation: cam and slider mechanisms, ring-nuts, screws, bolts and nuts.</p> <p>It is an aerosol and can therefore be used as a replacement for some molybdenum disulphide products when application is problematical.</p> <p>It withstands temperatures of up to 350°C.</p>	Molybdenum disulphide	
BONDERITE L-CA L 200 Formerly L200	<p>Lubrication of moving components subject to very high temperatures. This graphite-based product is very versatile and can be applied in a variety of fields: lubrication of bearings subjected to high temperatures (e.g. heat treatment carriages), pins and extractors. Also suitable for the die-forming or forging of ferrous and non-ferrous metals.</p>	Graphite	

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Facing & Auxiliary Products



Product	Typical applications	Lubricant	Example
BONDERITE L-GP D17A Formerly Pulvegraph D17 A	Graphite in aerosol form. Dry lubrication of surfaces which function at high temperatures: foundry dies, mechanisms, extractors, screws and nuts at high temperatures. Also suitable as a lubricant for cold-starting production.	Graphite	A photograph showing a large industrial die or mold being processed. A red arrow points to a specific part of the machinery where the product is being applied.
BONDERITE L-GP D31A Formerly Pulvegraph D31 A	Dry lubrication of surfaces which operate at high temperatures: used on very hot surfaces, reaching temperatures as high as 1000°C. When used on gravity casting dies, it improves the flow of metal.	Graphite	A photograph of a large industrial casting machine. A red arrow points to a rotating component where the product is being applied.
LOCTITE SF 7900 Formerly Pulve BND 60 A	Dry lubrication, boron nitride based. This is a very versatile product suitable for a variety of uses: from the lubrication of elements exposed to temperatures of 1000°C and above to the restoration or repair of refractory elements such as launders or tapping ladles.	Boron Nitride	A photograph of an industrial conveyor or laundries system. A red arrow points to a section where the product is being applied.

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