

STEEL INDUSTRY



**HIGH PERFORMANCE  
INDUSTRIAL  
LUBRICANTS**

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## Raw material handling

| Application point | Product   | Characteristics   |
|-------------------|---|---|
| Open gears        | <b>Inomax H-0</b><br><b>Inomax H-1/R</b>            | Aluminium thickened grease with solid lubricants which ensure a thin, continuous and very adherent lubricating film                                 |
| Elevators         | <b>Grease MoS2 B-2</b><br><b>Greases MoS2 BVT-2</b> | Lithium thickened grease with EP-additives and Molybdenumdisulfide. Its special formulation provides excellent untuosity and adherence.             |
| Cables            | <b>KBL</b>  | Fluid gease with MoS2, for the maintenance of metallic cables. Its penetration ability and adherence ensures the integral lubrication of the cable. |

## Sinter installations

| Application point                                    | Product   | Characteristics   |
|--|---|---|
| Transport and Charging installations (articulations) | <b>Grease MoS2 B-2</b>                                    | Lithium thickened grease with EP-additives and MoS2, with excellent untuosity and adherence.  |
| Inomaxs and pignons<br>- Joints, transport wagons    | <b>Inomax H-0</b><br><b>Inomax H-1/R</b>                  | Aluminium thickened grease with solid lubricants, application by brush or spraying.   |
| Bearings   | <b>Grease Lithium Komplex-2</b><br><br><b>Grease Alco</b> | Lithium thickened grease with EP-additivation, temperatures from -20 to 150°C<br>Aluminium thickened grease, very good pumpability, especially for widespread centralized lubrication systems, -30 to 180°C |

## Coke oven

| Application point          | Product                | Characteristics  |
|----------------------------|------------------------|--|
| Coke demoulding            | <b>Paste HTG</b>       | High temperature lubrication up to 200°C as pasteuse product and up to 600 °C as solid lubricant. Avoids corrosion and sticking, minimizing wear.                      |
| Polley of transport guides | <b>Grease MoS2 B 2</b> | Lithium thickened grease with EP-additives and MoS2, with excellent untuosity and adherence. Especially formulated for heavy loads.                                    |
| Electric motors            | <b>Grease Poly ALN</b> | Polyurea compound grease, with adjusted consistence and especially formulated for the lubrication of electric motor bearings, assures long life service.               |
| Taps                       | <b>Grease Plexbar</b>  | Barium complex thickened grease, very resistant against water and vapour, acid and alcaline solutions. Excellent anti-wear properties. Service temperature up to 160°C |

## Blast furnace

| Application point                                       | Product  | Characteristics   |
|---|--|---|
| Charging devices, Moving elements upper part of furnace | <b>Grease Alco</b><br><b>Grease Calcium Complex</b>                | Special grease aluminium complex thickened, for high temperatures, from -30 to 180°C.<br>Calcium complex thickened greases, excellent resistance against combined attack of water and heat. |
| Wheel bearings of hot metal wagon                       | <b>IHTS-2/IHTS X-2</b><br><b>Inomax H-0</b><br><b>Inomax H-1/R</b> | High temperature grease with MoS <sub>2</sub> .<br>Aluminium thickened grease with solid lubricants, very good adherence and pumpability.   |
| Roller bearings SKIP                                    | <b>Grease MoS<sub>2</sub> B 2</b>                                  | Lithium thickened grease with EP-additives and MoS <sub>2</sub> , excellent untuosity and adherence. Specially formulated for heavy loads.  |
| Discs, Elevators SKIP                                   | <b>Grease Lithium EP 2</b>   | Lithium thickened grease with EP-additivation, excellent mechanical stability, for temperatures from -20 to 120°C   |
| Taps and valves   | <b>Grease Plexbar</b>  | Greases specially resistant against water, acids and vapour. Excellent sealing capacity and lubricity. Up to 160°C.   |
| Electric motors – Bearings                              | <b>Grease Poly ALN</b><br><b>Grease Lithium Complex HLM-2</b>      | Special developed Polyurea grease.<br>Complex grease with solid lubricants, MoS <sub>2</sub> , for bearings under loads at higher temperatures up to 150°C.                                 |
| Cables  | <b>KBL</b>   | Special developed grease for the maintenance and lubrication of metal cables.   |

## Furnace lubrication

| Application point                                     | Product   | Characteristics  |
|---|---|--|
| Pivots, Bearings and slide bearings                   | <b>Grease MoS2 B 2</b><br><b>Grease Lithium Complex HLM-2</b><br><b>Grease IHTS-2</b>         | Lithium grease with EP and MoS2. for high loads. -20 a 130°C<br>High performance complex grease, with MoS2<br>High temperature grease with MoS2.   |
| Hopper, Charging devices, Wagons, Magnet articulation | <b>Grease MoS2 B 2</b><br><b>Grease Poly HT plus 2</b><br><b>Grease Lithium Complex HLM-2</b> | Lithium grease with EP and MoS2. for high loads. -20 a 130°C.<br>Very adhesive and stable complex grease. For application points under higher temperatures.<br>High performance complex grease, with MoS2.<br>For heavy loads and higher temperatures. |
| Furnace gates, Connecting rods, Electrodes handling   | <b>Paste HTG</b>  | Lubricant paste, for mechanisms at temperatures up to 600°C.   |
| Open gears  | <b>Inomax H-0</b><br><b>Inomax H-1/R</b>  | Aluminium thickened grease with solid lubricants, application by brush or spraying.  |
| Elevator cables                                       | <b>KBL</b>  | Special developed grease for the maintenance and lubrication of steel cables.  |
| Crisol transport wagon                                | <b>Grease Alco</b><br><br><b>Inomax H-0</b><br><b>Inomax H-1/R</b>                            | Complex grease, very adherent and stable, specially for lubrication points at higher temperatures from -30 to 180°C<br>Special greases with solid lubricants, for heavy loads, applicable by spray systems.  |
| Electric motors                                       | <b>Grease Poly ALN</b><br><br><b>Grease Lithium Complex HLM-2</b>                             | Special developed Polyurea grease. Long-life lubrication, -50°C to 180°C.<br>Complex grease with solid lubricants, MoS2, for bearings under loads at higher temperatures up to 150°C.  |

## Continuous roller casting

| Application point  | Product   | Characteristics  |
|--|---|--|
| Diver guides, Hot metal bucket<br>SEGMENT 0  | <b>Paste GCO -2</b>   | Solid lubricant containing paste to assure correct function of diver opening system mechanisms.  |
| Tundish wagons   | <b>Grease Poly HT plus 2</b>  | Polyurea grease with high thermal and mechanical stability. Very resistant against water.  |
| Transport rolls of hot material<br>-Molde exit<br>-Extracting and winding machine<br>-Cooling area<br>-Discharge system<br>-etc. | <b>Grease Fluor HT-2</b><br><br><b>Grease Calcium Complex 2</b><br><b>Grease Poly HT plus 2</b><br><br><b>Grease Alco</b> | Special greases for long-life lubrication of bearings at very high temperature. Resistant against oxygen, chemical agents, etc.<br>Complex grease. Best for centralized lubrication systems where cooling with water is applied.<br>Polyurea grease with high thermal and mechanical stability.<br>High performance grease with excellent pumpability for centralized lubrication systems. |
| Open gears   | <b>Inomax H-0</b><br><b>Inomax H-1/R</b>  | Aluminium thickened grease with solid lubricants very adherent, building up a fine lubricant film avoiding wear of the gear teeth.   |

## Cold rolling

| Application point         | Product   | Characteristics  |
|---------------------------|---|--|
| Roller and plain bearings | <b>Grease Lithium EP 2</b><br><br><b>Grease Calcium Complex 2</b> | Lithium thickened grease, EP-additivation, with excellent mechanical stability.<br>Complex grease with excellent sealing capacity against water. |
| Open gears                | <b>Inomax H-0</b><br><b>Inomax H-1/R</b>                          | Aluminium thickened grease with solid lubricants, very adherent, avoiding wear and vibrations.   |
| High temperature chains   | <b>Topsynt 320</b>  | Synthetic oil with graphite  |
| Joints                    | <b>Grease Lithium MSO-1</b>                                       | Special grease with solid lubricants, excellent anti-wear properties.  |

## Miscellaneous

| Application point | Product   | Characteristics   |
|-------------------|---|---|
| Air Compressors   | <b>Aircomp Series</b><br><b>Airtop HT Series</b><br><br><b>Airtop Superior</b>                                      | Standard mineral based compressor oil<br>High performance Hydrotreated Based compressor fluid, service life up to 8000 hours<br>Highest performing synthetic compressor fluid, service life up to 8000 hour under all circumstances   |
| Hydraulic Systems | <b>Hydromax Series</b><br><b>Hydromax HT series</b><br><br><b>Hydro FR WG series</b><br><br><b>Ecomax SE series</b> | Mineral based hydraulic fluid<br>Hydro treated based hydraulic fluids for high performance and lifetime. No deposit creation under high temperature conditions<br>Fire resistant hydraulic fluids (water glycol and ester based)<br>High performance Biodegradable hydraulic Fluid HEES |
| Engine Oils       | <b>Rymco series</b>   | .High performance latest technology range of engine oils and other automotive products  |
| Chain Oils        | <b>Chainmax</b><br><b>Chainmax WR</b><br><b>Chaintop</b>  | Special chain lubricant<br>Water resistant chain lubricant<br>High temperature chain lubricant  |



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