



## G. BESLUX PLEX H-1 AND H-2

### **VERY ADHERENT HIGH PERFORMANCE GREASE INTENDED FOR HEAVY LOADED MECHANISMS OPERATED IN A WIDE TEMPERATURES RANGE**

It has been specifically formulated with a complex thickenner, high quality refined mineral oils and synthetic polymers, to obtain a grease provided with optimum behavior. It provides the metallic surfaces with a very stable and adherent lubricating film. Avoids the metal-metal contact, even in limit lubricating conditions, i.e. under heavy or shock loads, high temperatures etc.

The EP, antioxidant and anticorrosive additives package together with a high viscosity oil and synthetic polymers, will secure a continuous protection to the metallic contact surfaces and will avoid early breakage due to fatigue, microcracks, scratches, high specific pressures and high shock loads.

The superior sealing capacity makes difficult the penetration of hard solid particles that might provoke scratches and microstrains in the running path of the bearings and avoids the penetration of water and water-oil emulsions used in metalworking processes, hence it reduces the corrosion and lubrication problems.

The high adhesion and very high affinity to metals will secure an optimum lubrication level of the mechanisms and the contact metallic parts. Avoid losses and grease leakage, consequently it will reduce the lubricant consumption as well as the contamination of the soluble oil bath, or the cooling fluid. Provided with a special lead, chlorine, sulfur free additive package. Therefore both contamination and staining problems from the process fluids are reduced.

The complex soap will ensure excellent behavior to mechanical work and its fiber nature will allow minimum oil loss values. Thanks to a high drop point they are capable of working in high temperatures operated mechanisms without losing their physico-chemical characteristics.

**G. BESLUX PLEX H-1 and 2** are used in heavy loaded mechanisms and bearings operated at medium and low speed in a wide range of temperatures (- 20 to 150°C) with water and/or emulsions, in steel, copper, brass rolling mills, equipments of the metal industry, in the cement industry, mines and Public Works etc.

### **APPLICATION**

The greases can be applied through centralized greasing systems, or manually. The proper consistency will depend on the general characteristics of the greasing systems.

### **BENEFITS**

- Wide operating temperatures range (-20 to 150°C). **Peak temperature : 180°C.**
- Resists shocks loads properly.
- Very adherent, very good affinity to metals.
- Superior sealing capacity, avoid the penetration of contaminating agents (water, dust, solid particles).
- Very good resistance to water and water-oil emulsion action.



- High stability to mechanical work.
- Compatibility with metalworking emulsion bath.
- Low environmental effects additives package.
- Very stable lubricating film with EP properties and high resistance to specific loads in limit lubricating conditions.

**CAUTIONS**

- ☼ The usual ones when using or handling lubricants.
- ☼ Do not mix with different nature greases.
- ☼ Keep the can closed to avoid contamination.

**PHYSICO CHEMICAL CHARACTERISTICS**

Characteristics	Standard	H-1	H-2
<input type="checkbox"/> Thickener, soap type	-	complex	complex
<input type="checkbox"/> Base oil nature	-	Refined mineral & synthetic polymers	Refined mineral & synthetic polymers
<input type="checkbox"/> NLGI Class	(DIN 51818)	1	2
<input type="checkbox"/> Worked penetration 60W	(DIN 51804)	310-340 x 0,1mm	265-295 x 0,1mm
<input type="checkbox"/> Worked penetration 10 <sup>5</sup> W	(DIN 51804)	max. 45 x 0,1mm	máx. 45 x 0,1mm
<input type="checkbox"/> Drop point	(DIN 51801)	min. 240°C	mín. 240°C
<input type="checkbox"/> Water resistance 90°C	(DIN 51807)	0	0
<input type="checkbox"/> Copper corrosion 24hr/100°C	(ASTM D-130)	max. 1b	max. 1b
<input type="checkbox"/> EMCOR Corrosion	(DIN 51802)	Grado 0	Grado 0
<input type="checkbox"/> Oil separation 30hr/100°C	(FTM 791-321)	max. 5%	max. 5%
<input type="checkbox"/> Oil separation 7 days/40°C	(IP-121)	max. 4%	max. 4%
<input type="checkbox"/> Stability to oxidación, 100°C	(ASTM D-942)	max. 0,5 bar	max. 0,5 bar
<input type="checkbox"/> Welding load	(ASTM D-2596)	min. 450 kgF	min. 450 kgF
<input type="checkbox"/> Operating temperatures:	-		
<input type="checkbox"/> continuous		-20 a 150°C	-20 a 150°C
<input type="checkbox"/> intermittent		max. 180°C	max. 180°C
<input type="checkbox"/> E.P., antioxidant & antirust additives	-	contains	contains
<input type="checkbox"/> Speed value (NxDN)		2,5 x 10 <sup>5</sup>	2,5 x 10 <sup>5</sup>

