

## Open Gear & Wire Compound

**Bardahl Open Gear & Wire Compound** has been specially developed for protecting gears, cables, and chains in the open air and underwater. This product provides additional protection against wear, rust, and corrosion, even under the most severe conditions of use.

The composition of this grease is tailored to the particular requirements that can be set for the lubrication and surface protection of cables (steel wire cables), chains, and open gears. This grease forms a protective thin, durable, resilient, dry, and extremely tough layer shortly after application.

The Bardahl components that are incorporated in the grease first form an adsorbed molecular layer on metal surfaces, on top of which a mechanical film forms, and both layers protect and lubricate.

### The problem

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Open gears are pre-eminently parts exposed to unfavorable conditions such as contamination of sand, dust, mud, and other abrasive materials. Steel wire ropes and chains are often exposed to corrosive conditions, abrasiveness, and extreme temperatures from -15°C to 220°. Under these exceptional circumstances, rust occurs quickly, and there is a lot of wear and tear. This causes significant delay and, of course, high repair and replacement costs.

### The processing

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**Bardahl OGW Compound** contains Bardahl's famous "polar attraction" formula and a unique mixture of bituminous compounds, which provide a protective lubricating film. The Bardahl formula comprises a scientifically formulated blend of polar organic substances and high-pressure components. This mixture adheres to metal surfaces and forms a thin, tough, lubricating layer, resisting high pressures, cold, and heat. This film displaces deposits and protects metal surfaces from new contamination, rust, and corrosion.

**Bardahl OGW Compound** is a lubricant with a creeping effect, which provides a resilient layer that cannot be washed away or thrown off. This very dense product has exceptional adhesive strength. On open gears, it provides a durable adhesive layer, which protects against dust and sand, corrosion, and wear. **Bardahl OGW Compound** is ideal for protecting parts such as turning dishes, couplings, cable clamps, open bolts and nuts, jacks, crane cables, transport cables, switches, and many devices that operate in extraordinary weather conditions.

### Manual

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Applying Bardahl OGW Compound on a clean or nearly clean surface is recommended. It is sufficient to remove the old grease from the parts to be treated and degreased with **Bardahl Multi Parts cleaner (artnr 78106)**.

Apply **Bardahl OGW Compound** layer by layer; this allows the newly applied coating to eliminate solvents and minimizes the chance of dripping. After using it, a drying period of 24 hours (e.g., a weekend) must be observed. After that, the processed surface is provided with a completely even, almost dry layer.

**Applications**

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- Protection of cables, open gears of cranes, draglines, shovels, etc.
- Protection of agricultural and earthmoving machinery and car hinge points such as pedals, doors, engine and boot lids, braking systems, etc.
- Protection and preservation of steel cables, as well as cable ducts.
- Protection of open gears, chains, cables, roller bearings underwater and in the vicinity of dust, grit, and mud.
- Protection of roller bearings against corrosion and all surfaces operating in an acidic atmosphere, such as open gears in paper mills, cement factories, etc.
- Protection of parts of dredging mills and lock gates that are constantly submerged in water (including saltwater).
- Prevention of rusting of bolts and nuts, if lubricated for installation, such as car exhaust suspensions, spring slings, bumpers, and other fasteners that will not be demonstrated for a long time under unfavorable conditions. Of course, these applications also apply to industry and shipping.

**General applications in the following sectors**

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- Transport
- Glass industry
- Road construction
- Paper factories
- Mining
- Agriculture
- Navigation
- Fairground attractions
- Fishery
- Amusement parks
- Packaging industry

**Properties summarized**

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- Excellent adhesion
- Prevents rapid wear and tear
- Exceptional protection against rust and corrosion
- Does not react with most chemical products
- Dries up

**Analytical data**

Class - Lubricant	Test		Results
	Method	Unit	Open Gear & Wire Compound
Density at 20°C	ASTM D 1298	kg/m <sup>3</sup>	930
Viscosity at 20°C	ASTM D 445	mm <sup>2</sup> /s	1600
Viscosity at 40°C	ASTM D 445	mm <sup>2</sup> /s	1000
Flashpoint	ASTM D 92	°C	27

**Main differences between OGW (72204) and OGW Transparent (72215)**

Characteristics	OGW	OGW Transparent
Color	Black	Transparent
Fragrant	yes	barely
Dries up	yes	no, it remains greasy and sticky
Protects	Yes, primarily	Yes, although the primary is the lubrication
Lubrication	no	yes, strong adhesion perfect co-and adhesion
Contents	400 ml	500 ml

**Applications**

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— **Main application OGW**

Open gearboxes and cables (for example, go into those (sea) water), especially for slowly rotating parts

— **Main application OGW Transparent**

Open gearboxes and cables. Especially where a clean/beautiful appearance is essential and where grease should not be visible.

**OGW Compound**

**Article number** 72204

**Contents** 400 ml