



# COPAL SPRAY

## DESCRIPTION

**Grease with solid lubricants, intended for lubricating joints and open gears. Application by aerosol.**

## APPLICATIONS

Designed to lubricate all types of open gears, cables, joints used in quarries, mines, steel mills, public works, cement plants, marine applications...

## ADVANTAGES

**COPAL SPRAY** contains a large quantity of solid lubricants to provide increased resistance to high loads and impacts.

The type of thickener agent, the choice of base oils and additives, in combination with the granulometry of the solid lubricants ensure:

- very good extreme-pressure, anti-rust and anti-wear properties,
- perfect insolubility in water,
- good resistance to cold temperatures,
- good resistance to ageing,
- easy application: spray by aerosol,
- preservation of the ozone layer : propellant gas CO<sub>2</sub>.

This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.

A material safety data sheet conforming to the regulations in use in the E.C. is obtainable via your commercial adviser [www.quick-fds.com](http://www.quick-fds.com).

**TotalEnergies Lubricants**

SA 552 006 454 RCS Nanterre - France

## TYPICAL CHARACTERISTICS

| TYPICAL CHARACTERISTICS                | METHODS     | UNITS   | COPAL SPRAY       |
|----------------------------------------|-------------|---------|-------------------|
| Color                                  |             |         | Black             |
| Texture                                |             |         | Smooth            |
| Aspect                                 |             |         | Thick-flowing     |
| Drop point                             | ASTM D 566  | °C      | > 200             |
| Worked penetration 60 strokes at 25 °C | ASTM D 217  | 1/10 mm | 310/340           |
| NLGI grade                             |             |         | 1                 |
| Unworked penetration at -20 °C         |             | 1/10 mm | 180               |
| Thickening agent                       |             |         | Aluminium complex |
| Solid lubricants                       |             |         | Graphite          |
| 4-ball weld load                       | ASTM D 2266 | daN     | >500              |
| Anti-rust test                         | Emcor       | rating  | 0 (no rust)       |
| Working temperature range              |             | °C      | - 30 to + 120     |

Above characteristics are mean values given as an information.

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