

# iBiotec®

## DP 6

### **SIX-FUNCTION AEROSOL FREES SEIZED PARTS**

**QUICK RELEASE ACTION**

**HIGH PENETRATING AND DEOXIDISING POWER**

**ANTI-WEAR LUBRICANT: SRV TEST 0.095**

**STATIC AND DYNAMIC CORROSION PROTECTION**

**REMOVES OILS, LUBRICANTS AND INORGANIC  
CONTAMINATION**

**INSTANTANEOUSLY REMOVES TAR AND BITUMEN**

#### **DESCRIPTION**

DP6 iBiotec a universal penetrating liquid which frees seized or corroded parts, lubricates, cleans, displaces moisture, prevents corrosion, and removes tar. It does not contain silicon oil, chlorinated solvent, or ortho-phosphoric acid.

DP6 iBiotec removes carbons, gums, light or heavy hydrocarbons. It doesn't become resinous.

This product has a low surface tension.

It has no unpleasant petroleum odor, but a natural pine odor.

DP6 iBiotec has a good UV resistance, and is nonirritant.

It has a low tension surface.

Water repellent, it can be applied on wet surfaces.

It leaves a protective anti-corrosive film.

DP6 iBiotec is compatible with plastics, elastomers, and is safe on paints.

## **DOMAINS OF USE**

|                                            |                                            |
|--------------------------------------------|--------------------------------------------|
| Telescopic antennas                        | Degumming of machine tool slides           |
| Buildings (cleaning and reviving surfaces) | Degreasing of chains                       |
| Nuts and bolts                             | Elimination of calcinated fats in bearings |
| Cables under sheaths                       | General maintenance                        |
| Bodywork (detarring)                       | Slides                                     |
| Hinges                                     | Guides                                     |
| Columns                                    | Pivots, axles                              |
| Electromechanical contacts                 |                                            |

## **INSTRUCTIONS FOR USE**

Shake the spray a few seconds. Pulverize on surfaces to be treated without excess..

Usable spray in all positions.

## **HIGHLY LUBRICANT, WEAR-RESISTANT**

FRICITION COEFFICIENT: SRV FRICTION TEST

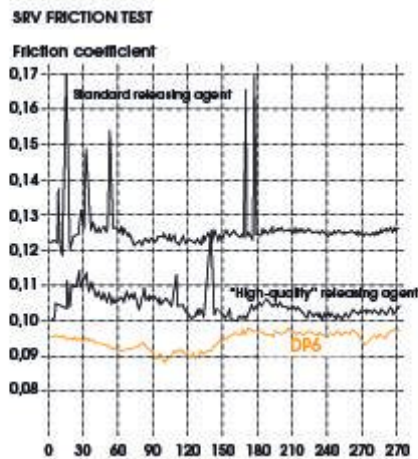
The SRV friction test is used to determine a friction coefficient.

The lower the friction coefficient:

- the lower the energy consumption
- the lower the forces required for disassembly
- the lower the level of operating noise.

As seen on the graph below, DP 6 has an extremely low and particularly constant friction coefficient. The plot does not exhibit any peaks which would indicate seizure between surfaces.

The peaks shown for a standard releasing agent and a "high-quality" releasing agent demonstrate the low lubricating properties of certain releasing agents.



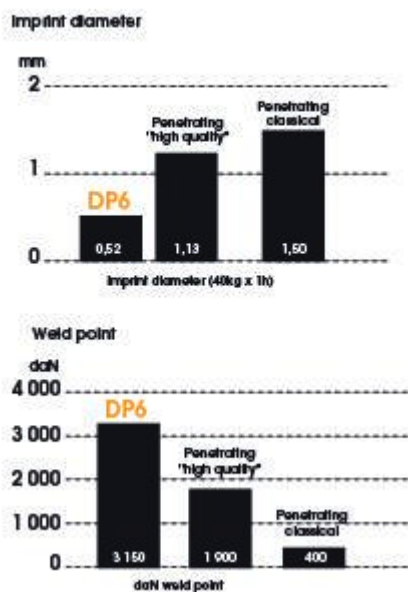
## SHELL FOUR-BALL TEST – IP 239 STANDARD (INSTITUTE OF PETROLEUM)

The IP 239 standard specifies a method for determining two parameters: the imprint diameter and the weld point.

- The smaller the imprint diameter, the higher the weld resistance of the product.
- The higher the weld point, the higher the load resistance of the product.

The tests show that DP 6 has high weld resistance and load resistance.

SHELL FOUR-BALL TEST - IP 239 Standard

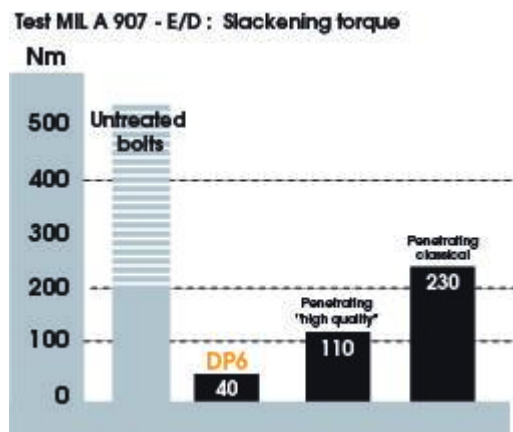


## BETTER PENETRATION

THE REMARKABLE RELEASING CAPACITY OF DP 6 INVOLVES TWO MECHANISMS:

- A very low surface tension of 24.2 dyne/cm, measured according to the ISO 6295 standard, ensuring high capillarity, enhanced by specific active ingredients that enable it to penetrate all mechanisms, even when surface roughness is low and clearances are tight.
- High adsorption into surfaces, enabling oxides to be broken down more easily during mechanical disassembly operations.

MIL STD A 907 E/D provides a method for measuring the torque needed to dismantle a bolted assembly, using a torque wrench. The forces are expressed in Newtons per metre. The results of the tests performed show very low dismantling torque after applying DP6.



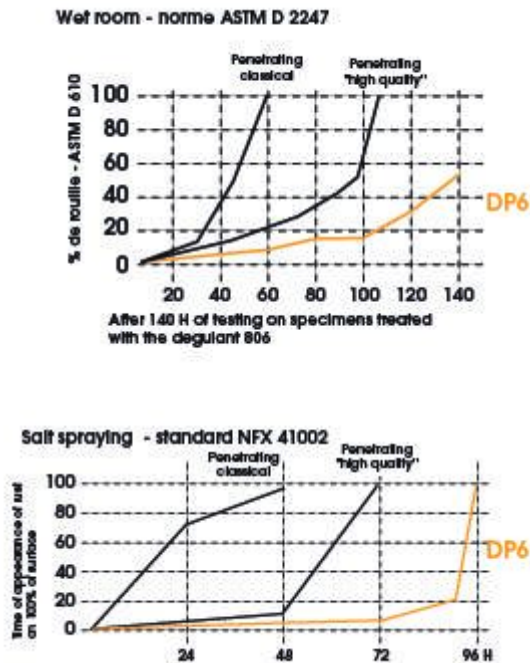
## DIELECTRIC

DP 6 has a breakdown voltage of 63,000 V measured in accordance with the IEC 156 standard. It has very high dielectric properties.

DP 6 is used for the maintenance of locked-out electrical equipment.

## GREATER PROTECTION

Internationally recognised tests have shown that a protective film of DP 6 can act as an effective protective oil that halts and provides long-lasting protection against rust and oxidation.



IN PARTICULAR, THE TESTS HAVE PROVEN :

- Easier release of seized assemblies, tools and mechanical parts.
- Effective prevention of seizing, when DP 6 is used during assembly.
- Better preservation of parts, even under harsh conditions such as sea transport.

## SAFER

**DP 6 offers guarantees :**

For the environment :

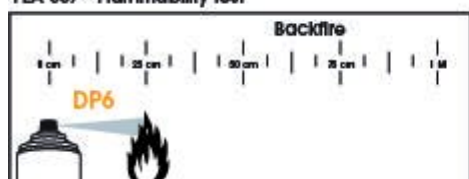
DP 6 is guaranteed free of CFCs, which are suspected of destroying the stratospheric ozone layer, and free of butane and propane, which are suspected of generating excess tropospheric ozone.

For the user :

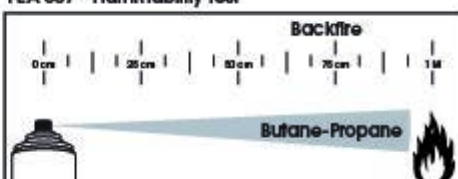
DP 6 is guaranteed free of chlorinated solvents, including class 3 carcinogens such as PER, TRI and methylene chloride. It does not contain any aromatic or benzene compounds.

Unlike aerosols propelled by butane and propane, there is no risk of accidental flashback. The non-flammable and non-explosive propellant thus avoids the risk of saturation in confined spaces. DP 6 is compatible with all materials with which it is in contact: metals, plastics, coated surfaces.

FEA 607 - Flammability test



FEA 607 - Flammability test



## PHYSICO-CHEMICAL PROPERTIES TYPICALS

| PROPERTY                    | STANDARD     | VALUE  | UNITS                  |
|-----------------------------|--------------|--------|------------------------|
| Appearance                  | Visual       | fluid  | -                      |
| Colour                      | Visual       | amber  | -                      |
| Odour                       | Olfactory    | pine   | -                      |
| Density at 25°C             | EN ISO 12185 | 830    | kg/m <sup>3</sup>      |
| Refraction index            | ISO 5661     | 1.4550 | -                      |
| Freezing point              | ISO 3016     | -20    | °C                     |
| Water solubility            | -            | 0      | %                      |
| Kinematic viscosity at 40°C | EN 3104      | 2.1    | mm <sup>2</sup> /s     |
| Acid value                  | EN 14104     |        | mg KOH/g               |
| Iodine value                | EN 14111     | 0      | g I <sub>2</sub> /100g |
| Water content               | ISO 6296     |        | ppm                    |

**PERFORMANCE PROPERTIES AS A DEGREASING SOLVENT**

| PROPERTIES                            | STANDARD           | VALUE | UNITS   |
|---------------------------------------|--------------------|-------|---------|
| KB index                              | ASTM D1133         | 97    | -       |
| Evaporation rate                      | -                  | 70    | min     |
| Surface tension at 20°C               | ISO 6295           | 24.2  | Dyne/cm |
| Breakdown voltage at 20°C             | EN 60156 / IEC 156 | 63    | kV      |
| Copper blade corrosion, 100 h at 40°C | ISO 2160           | 1a    | Class   |

**PERFORMANCE PROPERTIES AS A LUBRICANT**

| PROPERTIES                | STANDARD   | VALUE | UNITS |
|---------------------------|------------|-------|-------|
| Potential noise reduction | GRW method | -20   | dB    |

**FIRE SAFETY PROPERTIES**

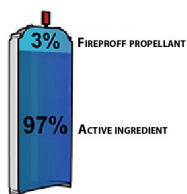
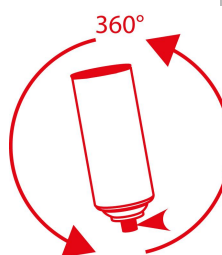
| PROPERTIES               | STANDARD  | VALUE | UNITS      |
|--------------------------|-----------|-------|------------|
| Flash point (closed cup) | ISO 2719  | 64    | °C         |
| Autoignition temperature | ASTM E659 | 230   | °C         |
| Lower explosive limit    | EN 1839   | 1     | % (volume) |
| Upper explosive limit    | EN 1839   | 7     | % (volume) |

**TOXICOLOGICAL PROPERTIES**

| PROPERTIES                                 | STANDARD | VALUE | UNITS                   |
|--------------------------------------------|----------|-------|-------------------------|
| Anisidine value                            | ISO 6885 | 0     | -                       |
| Peroxide value                             | ISO 3960 | 0     | meq(O <sub>2</sub> )/kg |
| TOTOX (anisidine index +2× peroxide index) | -        | 0     | -                       |

|                                                                         |                           |              |                       |
|-------------------------------------------------------------------------|---------------------------|--------------|-----------------------|
| Content of CMR, irritant and corrosive substances                       | CLP regulation            | 0            | %                     |
| Content of residual methanol derived from transesterification processes | GC-MS                     | 0            | %                     |
| Aldehyde content                                                        | GC-MS                     | 0            | ppm                   |
| <b>ENVIRONMENTAL PROPERTIES</b>                                         |                           |              |                       |
| <b>PROPERTIES</b>                                                       | <b>STANDARD</b>           | <b>VALUE</b> | <b>UNITS</b>          |
| Water hazard                                                            | WGK Germany               | 1            | Class                 |
| Bioaccumulation<br>Partition index<br>(n-octanol/water)                 | OCDE 107                  | <3           | log KOW               |
| Vapour pressure at 20°C                                                 | EN 13016                  | 0.25         | hPa                   |
| Benzene content                                                         | ASTM D6229                | 0            | %                     |
| Total halogen content                                                   | Bomb calorimeter<br>GC MS | 0            | ppm                   |
| Chlorinated solvent content                                             | -                         | 0            |                       |
| Aromatic solvent content                                                | -                         | 0            |                       |
| Content of substances hazardous to the environment                      | CLP regulation            | 0            | %                     |
| Content of compounds with non-zero GWP                                  | -                         | 0            | %                     |
| Content of compounds with non-zero ODP                                  | -                         | 0            | %                     |
| Carbon balance, life cycle analysis.                                    | ISO 14040                 | 6.25         | Kg, carbon equivalent |

## PRESENTATIONS



### LAST 3 TIMES MORE

Atmospheric gas of natural origin non-flammable  
Guaranteed without Butane Propane VOC highly flammable  
Guaranteed without HFC greenhouse effect fluorine  
Directive F.Gaz 5017:2014



Aerosol 650 ml



Can 20 L



## Looking for another product?

Discover our entire range by clicking on the photo

A large collection of various Biotech Neolux paint cans and tubes arranged on a white surface. The products include different colors like grey, green, yellow, red, and blue, and are labeled with specific product names such as "NEOLUX ALU TSP", "NEOLUX GRIS", "NEOLUX VERTE", and "NEOLUX METAL". Some cans have black caps, while others have white or colored caps. A tube of paint lies horizontally in the foreground.

**iBiotec® 2 000** TECHNICAL PRODUCTS FOR ALL INDUSTRIES