

# Technical Data Sheet



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**Product Name:**

High Temperature Dry Film Lubricant

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**Product Number:**

PL181

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**Product Description:**

Dry film lubricant resistant to corrosive environments, skydrol, lubricants, fuels and operating temperatures of up to 700°C (1,300°F), in areas of fretting and anti galling. Used for example on the marine RB211 and Rolls Westinghouse WR21. Protecting an internal satellite bush running at 500-550°C (930-1020°F), it is used at the turbine end in a variable geometry area to reduce friction.

PL181 should be tested before use in aqueous environments or manufacture processes where aqueous washing is used. PL181 has only limited resistance to water immersion.

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**Approvals/Specifications:**

- MSRR 9200
  - OMat 4/36
  - RR Code 132499
  - Complies with Def Stan 91-19
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**Performance:**

Tested for resistance to MSRR 9200 which includes:

- Dry oxidising heat at 700°C (1,290°F)
  - Skydrol at 70°C (155°F)
  - Rubbing wear test 100,000 rubs in 1 hour under 1/25 lbs pressure at 400, 500, 600 and 700°C
  - 1000 hours at 600°C (1,110°F)
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**Components:**

Single Pack Product. May be thinned with demineralised water.

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**Application:**

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**Surface Preparation:**

Object should be abrasive blasted, dry and grease free.

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## Paint Preparation:

Stir well or roll before use. DO NOT SHAKE. Product is supplied ready for use. Can be thinned with maximum 10% de-mineralised water.

## Application Method:

Apply to substrate (steel to MSRR 6504) by spray; heating the part to 50°C improves the quality of the coating. Full obliteration will not be achieved; the product is semi-translucent. It is normal to build up the coating thickness in 3-4 coats

It is possible to add up to 10% de-mineralised water to ease the viscosity and then spray very soft and apply thin mist coats, allowing a flash off between the coats.

For Rolls-Royce work, refer to RPS 661/7.

Wash equipment with water

## Drying Curing:

Air dry for a minimum of 30 minutes, stove for 1 hour at 150°C (300°F).

## Technical Properties:

<b>Supply Viscosity:</b>	Ready for Use
<b>Flash Point:</b>	N/A.
<b>VOC Content:</b>	N/A.
<b>Colour:</b>	White
<b>Pack Size:</b>	500ml Only
<b>Specific Gravity:</b>	1.275+/- 0.015
<b>Gloss:</b>	Semi-Gloss
<b>Thinner:</b>	Supplied ready for use
<b>Solvent/Clean Up:</b>	Water
<b>Catalyst:</b>	N/A.
<b>Theoretical Coverage:</b>	11.5 sq.M/litre @ 15 micron

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## Storage:

Water based product. Do not allow to freeze.

Store between 5°C – 35°C.

**Shelf Life:** 12 months temperate; 6 months tropical

**Before use, refer to Product Safety Data Sheet**

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## Safety Data Sheets:

For Safety Data Sheets please contact our Sales Department:

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