



## Tribol™ EC Coating

Synthetic oil for electric plug connections

### Description

Tribol™ EC Coating (previously called Optimol EC Coating) is a silicone-free synthetic oil with a wide temperature application range. High protection against corrosion and oxidation guarantees a reliable electric contact between plug connections. TRIBOL EC COATING ensures a constant low transition resistance over a long period of time as well as low mating and withdrawing forces of plug connections.

### Application

For initial lubrication in the following areas:

- For electric plug connections in the electric and electronic industry
- Motor vehicles, computers, electrical appliances as well as airplanes and many other electric/electronic devices with cable plug connections
- Temperature application range: - 40°C/- 40°F to + 120°C/+ 248°F

### Advantages

- Reduces fretting corrosion
- Prevents the increase of transition resistance
- Lowers mating and withdrawing forces
- Silicone-free
- Protects against corrosion
- Good wetting properties

### Typical Characteristics

Name	Method	Units	Tribol EC Coating
Color	Visual	-	Clear-transparent
Density @ 15°C / 59°F	ASTM D4052 / ISO 12185	kg/m <sup>3</sup>	850
Kinematic Viscosity @ 40°C / 104°F	ISO 3104/ASTM D445	mm <sup>2</sup> /s	400
Kinematic Viscosity @ 100°C / 212°F	ISO 3104/ASTM D445	mm <sup>2</sup> /s	39
Viscosity Index	ASTM D2270 / ISO 2909	-	146
Pour Point	ASTM D 97 / ISO 3016	°C/°F	-39 / -38
Flash Point - open cup method	ASTM D 92 / ISO 2592	°C/°F	>250 / >482
Copper Strip Test	ASTM D130	-	1a

1 mm<sup>2</sup>/s ^ 1cSt. Subject to usual manufacturing tolerances

## Additional Information

- Depending on the kind of application, TRIBOL EC COATING can be diluted with up to 95% solvent on hydrocarbon basis (solvent naphtha) and then be applied.
- Attention when diluting with flammable solvents such as solvent naphtha. Please observe the safety, risk and handling recommendations by the manufacturer.
- Do not apply on current-bearing or hot parts. Avoid dangerous electrostatic charges.
- Provide discharge of steam-air-mixtures

**This product was previously called Optimol EC Coating. The name was changed in 2015.**

Tribol™ EC Coating

10 Feb 2015

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

Castrol Industrial, Technology Centre , Whitchurch Hill , Pangbourne , Reading , RG8 7QR , United Kingdom

[www.castrol.com/industrial](http://www.castrol.com/industrial)