

## BioTac MP2

EU Ecolabel registered multipurpose EP grease

### Description



EU Ecolabel:  
DE/027/297

Castrol BioTac MP2 is an EU Ecolabel registered Environmentally Acceptable Lubricant, multipurpose EP grease based on Lithium Calcium thickener technology, saturated ester and an optimised performance additive system to impart corrosion protection, oxidation stability and load carrying capability. The adhesive properties of the grease improve water resistance and thus reduce the potential for wash off.

Castrol BioTac MP2 is EU Ecolabel for lubricants registered. The EU Ecolabel is a label of environmental excellence that is awarded for products and services meeting high environmental standards throughout their life-cycle, from raw material extraction, to production, distribution and disposal. Castrol BioTac MP2 exceeds the requirements of EU Ecolabel in regard to the certified sustainably sourced renewable content of the grease and the post-consumer plastic content of the packaging.

Castrol BioTac MP2 complies with current 2018 US Vessel Incidental Discharges Act (VIDA) criteria for Environmentally Acceptable Lubricants (EALs) as it meets 2013 US Vessel General Permit (VGP) biodegradation, bioaccumulation and toxicity requirements.


### Application

Castrol BioTac MP2 has been developed primarily for use on exposed marine deck applications and combines excellent physical properties that enable resistance to both mechanical shear and water spray-off with an additive system developed to protect exposed components from corrosion, oxidation and the effects of load, friction and wear.

Castrol BioTac MP2 is intended for use in a wide range of applications including medium to low speed bearings (plain and roller), open gears and wire ropes typically found on deck machinery.

The combination of thickener and base oil technology enables Castrol BioTac MP2 to have a broad operating temperature range of between -35°C and 140°C.

## Advantages

FEATURES	BENEFITS
	<p>Better for the environment...</p> <ul style="list-style-type: none"> <li>• Less hazardous substances ending up in the environment</li> <li>• Verified performance</li> <li>• &gt; 80% of certified renewable ingredients used</li> </ul> <p>... better for you</p> <p>Castrol BioTac MP2 holds EU Ecolabel registration number (DE/027/297).</p>
Load Carrying Capacity	Good protection of equipment under loaded conditions to minimise wear.
High Base oil Viscosity	Provides a strong oil film to give protection, at slow speeds and high loads.
Corrosion Protection	Specifically developed for use in marine applications, providing good resistance to the effects of salt water and corrosion.
Low temperature flow properties	Retains its ease of application and flow at lower temperatures than mineral-oil based alternatives.
Colour	Amber colour allows easier visual inspection of the grease to ensure cleanliness.

## Additional Information

It is highly recommended to completely remove and clean all used grease from components before applying Castrol BioTac MP2, to ensure the performance and environmental credentials of Castrol BioTac MP2 are attained.

If this is not feasible, during the transition period, it is advisable to apply Castrol BioTac MP2 more frequently, to purge the old grease and monitor the operating conditions to ensure optimum performance.

Whilst traditional ways of applying grease on wire ropes may be utilized, use of a proprietary pressurised grease applicator in accordance with manufacturer's instructions may assist in applying the appropriate quantity of grease and may also help to protect the core of the wire rope. Care should be taken to ensure that only a thin film of grease is applied to the external surfaces of the wire ropes as excessive greasing could potentially lead to contamination of surrounding areas.

Crew on board should always ensure that relevant equipment and surfaces are properly lubricated and coated with grease.

## Typical Characteristics

Name	Method	Units	BioTac MP2
NLGI Classification	ASTM D217	NLGI	2
Worked penetration at 25°C after 60 strokes	ASTM D217	0.1 mm	265 - 295
Appearance	Visual	-	Amber
Base Oil Kinematic Viscosity @ 40°C	ASTM D445	mm <sup>2</sup> /s	500
Oil Separation (Greases) 168h 40°C	IP 121	% wt	2
Water Spray Off, Grease Loss	ASTM D4049	% wt	30
Worked Penetration (100,000 strokes @ 25°C) - change from 60 strokes	ASTM D217	0.1 mm	30
Flow Pressure @ -35°C	DIN 51805	hPa	< 1400
Drop Point	ASTM D566	°C	160
Copper Corrosion, 24 hrs@ 100°C	ASTM D4048	-	1b
Emcor Corrosion test (Synthetic Sea Water)	DIN 51802	-	0/1
4 Ball Weld Point	DIN 51350-4	N	3800
FE9 (B/1500/6000-140)	DIN 51821-2	Hours	F50>100
Renewability, Certified Renewable Content	ASTM D6866:2008	%	>80

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

## Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60C, exposed to hot sun or freezing conditions.

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

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