

PRODUCT & TECHNICAL DATA

CASTROL BIOTRANS SERIES

Environmentally friendly synthetic gear oil

DESCRIPTION

Castrol BioTrans synthetic gear oils are formulated from a synthetic ester.

The biodegradability of BioTrans was measured in an OECD 306 (seawater) and OECD 301B (Freshwater) biodegradation test with a result greater than 60%, making it 100% more biodegradable than conventional mineral oils. BioTrans is therefore classified as readily biodegradable in the marine environment. The toxicity of BioTrans was measured on 3 marine species and was found to be up to 100% less toxic than conventional mineral oils. It also has less potential for bioaccumulation and >30% of BioBar is derived from renewable resources.

Anti-wear and corrosion protection additives improve the natural characteristics of the synthetic base oil.

Castrol BioTrans gear oils are available in the viscosity grades ISO VG 150 to ISO VG 460.

Quality Standard: Castrol BioTrans gear oils are CLP E gear oils according to DIN 51502 and surpass requirements of gear oils acc. to DIN 51517-3 and AGMA 250.04.

APPLICATIONS

Castrol BioTrans gear oils are suited for the application in spur, helical and planetary gear units, couplings, rolling and sliding bearings.

Castrol BioTrans synthetic gear oils may be used where for environmental reasons a biodegradable gear oil is required. Temperature application range: from - 25°C to + 90°C

- Readily biodegradable
- load stage >12 is passed in the FZG test
- Castrol BioTrans passes the FZG micropitting test with the result: high micropitting load carrying capacity

- excellent oxidation stability allows extended oil change cycles
- reduced consumption and smaller amounts of lubricants disposed protect the environment
- high viscosity index allows start-ups at low temperatures and provides for a thicker lubricating film at high temperatures for additional anti-wear protection
- Castrol BioTrans synthetic gear oils are compatible with commonly used seals and paints
- Approved by Ortlinghaus for their clutches

TECHNICAL DATA

	Unit	Value	
Castrol BioTrans	-	150	220
Viscosity Grade	-	150	220
Density @ 15°C	kg/m ³	960	960
Viscosity @ 40°C	mm ² /s	150	220
Viscosity @ 100°C	mm ² /s	21.6	29.3
Viscosity Index	-	170	
Flash point	°C	> 230	
Pour point	°C	-27	-24
Copper corrosion test (100 A 3)	-	1	
Corrosion test	-	0	
Foaming properties @ 25°C	ml	< 50/0	
Foaming properties @ 95°C	ml	< 50/0	
Foaming properties @ 25°C after 95°C	ml	< 50/0	
Flender foam test	-	passed	
SRV test	μ	0.08	
FZG test A/8.3/90	-	> 12	
FZG test A/16.6/90	-	12	

