

# BT4 Biosynthetic Base Oil

Delivering innovations for a sustainable future.



BT4 is a low viscosity renewable base oil that offers exceptional technical performance and environmental benefits.

## TECHNICAL PERFORMANCE

- High Oxidative Stability
- Low Volatility
- High Viscosity Index
- Hydrolytic Stability
- Natural Detergency
- Longer Lasting
- Increased Safety
- Fewer Additives Needed
- Increased Stability
- Less Maintenance

## ENVIRONMENTAL BENEFITS

- High Biodegradability
- Low Bioaccumulation
- Low Toxicity
- High Bio-Content
- Rapid Breakdown
- Low Environmental Risk
- Reduced Risk to Wildlife
- Renewable Carbon Based



### LOW VISCOSITY

22

ISO VG 22

### BIODEGRADABLE

89 %

(OECD 301B)

### BIO-BASED

70 %

(ASTM D6866)

## APPLICATIONS



Metalworking



Motor Oil



Hydraulic Fluid



Compressor Oil

SEE REVERSE FOR PRODUCT SPECIFICATIONS

For more info contact us at [info@biosynthetic.com](mailto:info@biosynthetic.com).

# BT4 Product Specifications



## PHYSICAL PROPERTIES

Property	Unit	Method	Typical Result*
<b>Viscometrics</b>			
Kinematic Viscosity at 100°C	cSt	D445	4.5-5
Kinematic Viscosity at 40°C	cSt	D445	21-24
Viscosity Index	–	D2270	150
<b>Cold Temperature</b>			
Pour Point	°C	D97	-21
<b>Volatility</b>			
Flash Point	°C	D92	250 min
<b>Titrations</b>			
Total Acid Number	mg KOH/g	D664	0.1
<b>Others</b>			
Color	–	D1500	1
Water	wt%	D1533	0.1 max
Specific Gravity (15°C)	–	D4052	0.90-0.92

\*Typical results are provided. To the best of our knowledge, the information is accurate, but given without guarantee. All results are for an unadditized base oil.



## ENVIRONMENTAL PROPERTIES

Biodegradability	OECD 301B	89%
Renewable Carbon Content	ASTM D6866	70%
EcoToxicity	OECD 201	>1000*
* based on similar product	OECD 202	>1000*
testing for BT estolides	OECD 203	>1000*
	OECD 209	>1000*

## PERFORMANCE TESTING

4-Ball Wear	ASTM D4172	TBD
4-Ball Weld	ASTM D2783	–
Weld Load		TBD
Load-Wear Index		TBD
Oxidative Stability	ASTM D2272	TBD
with Anti-Oxidant		TBD
Hydrolytic Stability	ASTM D2619	
Total Acidity Water Layer - 144 Hours		TBD

For more info contact us at [info@biosynthetic.com](mailto:info@biosynthetic.com).