

BT4 Biosynthetic® Base Oil

Delivering innovations for a sustainable future.

BT4 is a low viscosity, lubricant base oil designed specifically to help customers in the lubrication industries meet their production quality standards. This high quality renewable base oil 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

BIODEGRADABLE

88 %
(OECD 301B)

BIO-BASED

68 %
(ASTM D6866)

APPLICATIONS



Metalworking



Motor Oil



Hydraulic Fluid



Compressor Oil

SEE REVERSE FOR PRODUCT SPECIFICATIONS

For more info contact us at info@biosynthetic.com or visit our website: www.biosynthetic.com
Biosynthetic Technologies, LLC. | 6320 Intech Way, Indianapolis, IN 46278 | 317-556-1050
www.linkedin.com/company/biosynthetic-technologies
REV 1.2 - 1/2020

BT4 Product Specifications



PHYSICAL PROPERTIES

Property	Unit	Method	Typical Result*
Viscometrics			
Kinematic Viscosity at 100°C	cSt	D445	4.7
Kinematic Viscosity at 40°C	cSt	D445	20.7
Viscosity Index	-	D2270	152
Cold Temperature			
Pour Point	°C	D97	-21
Volatility			
Flash Point	°C	D92	242
Noack	wt%	ASTM D5800	8.3
Titration			
Total Acid Number	mg KOH/g	D664	0.1
Others			
Color	-	D1500	1
Water	wt%	D1533	0.1 max
Specific Gravity (15°C)	-	D4052	0.90-0.92
KRL Sheer Stability, 20 hours	% loss	CEC L-45-99	-2.07%



LuSC-
List



*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	88%
Renewable Carbon Content	ASTM D6866	68%
EcoToxicity	OECD 201	>1000 mg/L
	OECD 202	>1000 mg/L
	OECD 203	>1000 mg/L

PERFORMANCE TESTING

4-Ball Wear	ASTM D4172	0.59 mm
4-Ball Weld	ASTM D2783	
Weld Load		126 kgf
Load-Wear Index		14.77 kgf
Oxidative Stability	ASTM D2272	50 min
with Anti-Oxidant		1215 min
Hydrolytic Stability	ASTM D2619	
Total Acidity Water Layer		2.2 mg KOH/g

Typical properties depicted on this document are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.