

BT22 Biosynthetic® Base Oil

Delivering innovations for a sustainable future.

BT22 is a medium 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

150
ISO VG

BIODEGRADABLE

79 %
(OECD 301B)

BIO-BASED

86 %
(ASTM D6866)

APPLICATIONS



Metalworking



Motor Oil



Hydraulic Fluid



Compressor Oil

SEE REVERSE FOR PRODUCT SPECIFICATIONS

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BT22 Product Specifications



PHYSICAL PROPERTIES

Property	Unit	Method	Typical Result*
Viscometrics			
Kinematic Viscosity at 100°C	cSt	D445	21.2
Kinematic Viscosity at 40°C	cSt	D445	146.5
Viscosity Index	-	D2270	170
Cold Temperature			
Pour Point	°C	D97	-21
Volatility			
Flash Point	°C	D92	270
Noack	wt%	ASTM D5800	3.4
Titrations			
Total Acid Number	mg KOH/g	D664	0.3
Others			
Color	-	D1544	4
Water	wt%	D6304	0.1 max
Specific Gravity (15°C)	-	D4052	0.90-0.92
KRL Shear Stability, 20 hours	% loss	CEC L-45-99	0.30%



*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	79%
Renewable Carbon Content	ASTM D6866	86%
EcoToxicity	OECD 201	>1000 mg/L
	OECD 202	>1000 mg/L
	OECD 203	>1000 mg/L

PERFORMANCE TESTING

4-Ball Wear	ASTM D4172	0.58 mm
4-Ball Weld	ASTM D2783	
Weld Load		160 kgf
Load-Wear Index		27.11 kgf
Oxidative Stability	ASTM D2272	96 min
with Anti-Oxidant		949 min
Hydrolytic Stability	ASTM D2619	
Total Acidity Water Layer		1.6 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.