

# 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



### HIGH VISCOSITY

150  
ISO VG

### BIODEGRADABLE

79 %  
(OECD 301B)

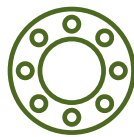
### BIO-BASED

86 %  
(ASTM D6866)

## APPLICATIONS



Gear Oil



Bearing



Hydraulic Fluid



Compressor Oil

SEE REVERSE FOR PRODUCT SPECIFICATIONS

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# BT22 Product Specifications



## PHYSICAL PROPERTIES

Property	Unit	Method	Typical Result*
<b>Viscometrics</b>			
Kinematic Viscosity at 100°C	cSt	D445	20.2
Kinematic Viscosity at 40°C	cSt	D445	137.5
Viscosity Index	-	D2270	169 min
<b>Cold Temperature</b>			
Pour Point	°C	D97	-21
<b>Volatility</b>			
Flash Point	°C	D92	268 min
Noack	wt%	ASTM D5800	3.4
<b>Titrations</b>			
Total Acid Number	mg KOH/g	D664	0.2
<b>Others</b>			
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	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%
<b>EcoToxicity</b>		
	OECD 201	>1000
	OECD 202	>1000
	OECD 203	>1000

## PERFORMANCE TESTING

4-Ball Wear	ASTM D4172	0.584 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 - 144 Hours		0.07

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.