

BIO-BASE 10/15/22

Renewable Lubricant Base Oil

The **BIO-BASE** series is a renewable alternative to low viscosity mineral base oils. The products are optimized multicomponent mixtures of renewable components. No viscosity modifiers or pour point depressants have been added. Despite the low aniline point **BIO-BASE** contain no aromatics.

Advantages

- High solubility for additives (low aniline point)
- High response to antioxidants in relation to solubility/aniline point
- Very high viscosity index (VI) better than PAO

Suggested Use

Process oils, hydraulic oils, (neat) metalworking fluids, greases, food grade lubricants.

Environment and Safety

BIO-BASE is not hazardous to the environment. All components are Readily Biodegradable according to OECD 301. **BIO-BASE** is fully REACH-compliant and not classified as dangerous goods. Safety data sheets (SDS) according to REACH/CLP are available.

Technical data (typical values)

Parameter	Method	BIO-BASE 10	BIO-BASE 15	BIO-BASE 22	
Kinematic Viscosity (mm ² /s)	40°C	EN ISO 3104	11.4	15.5	23.6
	100°C	EN ISO 3104	3.6	4.6	6.4
Viscosity Index	ASTM D2270	230	243	247	
Density 15°C (kg/m ³)	ASTM D4052	813	820	830	
Pour Point (°C)	ASTM D5950	-30	-30	-26	
Flashpoint (°C)	ASTM D93	145-155	145-155	145-155	
Aniline point (°C)	ASTM D611	84	80	77	
Biobased Carbon (%)	ASTM D6866	99	98	98	

Oxidation Stability (0.5 w% BHT added)

Method	BIO-BASE 10	BIO-BASE 15	BIO-BASE 22	
RPVOT (min)	ASTM D2272	147	145	133

As a comparison naphthenic mineral oils of similar aniline point give results in the range 130-140 min.