



# BIO-BASE

## High Solvency Industrial Base Fluids

The **BIO-BASE** series are renewable low viscosity base fluids with characteristics similar to naphthenics (high solvency) but combined with very high VI, high biodegradability, and high response to antioxidants.<sup>1</sup>

Parameter		Method	BIO-BASE 4	BIO-BASE 10	BIO-BASE 15	BIO-BASE 22
Kinematic Viscosity	40°C (mm <sup>2</sup> /s)	EN ISO 3104	3.9	10	15	21
	100°C (mm <sup>2</sup> /s)	EN ISO 3104	1.5	3.2	4.4	5.7
Viscosity Index		ASTM D2270	157	207	235	240
Density 15°C (kg/m <sup>3</sup> )		ASTM D4052	804	813	820	830
Pour Point (°C)		ASTM D5950	-28	-38	-37	-36
Flashpoint (°C)		ASTM D93	150	145	145	145
Aniline Point (°C)		ASTM D611	85	88	84	78
Color		ASTM D1500	<1.5	<0.5	<0.5	<0.5
Total Acid Number (mg KOH/g)		ASTM D974	<0.1	<0.3	<0.3	<0.3
Biobased Carbon (%) <sup>2</sup>		ASTM D6866	≥98	≥98	≥98	≥98
Readily Biodegradable		OECD 301B	Yes	Yes	Yes	Yes
GWP <sup>3</sup>		kg CO <sub>2</sub> -eq/kg		0.23	0.37	0.50

Table represents typical values

### Environment & Safety

BIO-BASE 22 is unlabeled and with a biodegradability of 70% within 28 days according to OECD 301B.

BIO-BASE 4,10 & 15 carries hazard statement H304 (see MSDS), with a biodegradability of 88% within 28 days according to OECD 301B.

<sup>1</sup>Oxidation stability on par with Group II-base oils using standard phenolic/aminic inhibitors.

<sup>2</sup>Test method max total error ±3 %

<sup>3</sup>Global Warming Potential from ongoing LCA according to ISO 14040/140044 (Cradle to gate).

### Product Composition & Manufacturing

Unique combination of renewable hydrocarbons and fatty acid derived materials. Miscible with many other types of base oil.

Developed and manufactured by Biobase Sweden AB. Bio-based products according to EN 16575:2014.

