BIO-BASE Renewable Base Fluids

Performance Base Fluids for Industrial Applications

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.[1]

Parameter		Method	BIO-BASE 4	BIO-BASE 10	BIO-BASE 15	BIO-BASE 22
Kinematic Viscosity	40°C (mm^2/s)	EN ISO 3104	3.9	10	15	21
	100°C (mm^2/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^3)		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
Hydrolytic Stability: Acid Number Increase (mg KOH/g)		ASTM D664-17a (mod)	120h: 0.00 192h: 0.05	120h: 0.00 192h: 0.01	120h: 0.00 192h: 0.06	120h: 0.00 192h: 0.05
Biobased Carbon (%)[2]		ASTM D6866	≥98	≥98	≥98	≥98
Readily Biodegradable		OECD 301B	Yes	Yes	Yes	Yes
Estimated PCF[3]		kg CO_2 eq/kg	-2.0	-1.7	-1.3	-0.9

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.

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.

[1] Oxidation stability on par with Group II-base oils using standard phenolic/aminic inhibitors.
[2] Test method max total error ±3 %
[3] Estimated Product Carbon Footprint Cradle to gate.

Biobase Sweden AB, Ostmästargränd 8, SE-120 40 Årsta, SWEDEN www.bioba.se
info@bioba.se +46-(0)8-520 275 90