



## YUNIBase 150 Plus+

### Group II-Like Performance Characteristics Premium Circular Group I+ Base Oil

YUNIBase 150 Plus+ is a Premium circular ISCC Plus Certified and PCF verified Group I+ base oil. It is the optimal option for lubricants to achieve three goals at the same time: High quality, low-carbon and low cost. YUNIBase 150 Plus+ can be used for all high performance Industrial Applications and selected engine oil formulations.



### Applications:

YUNIBase 150 Plus+ is suitable for premium **industrial lubricant formulations** such as hydraulic oils, circulating oils, compressor oils, turbine-type oils, light gear oils, and general industrial oils. It may also be evaluated as a circular, low-carbon base oil component in **selected engine oil formulations** where Group II-like performance, good low-temperature properties, and formulation flexibility are required.

YUNIBase 150 Plus+ is highly suitable for evaluation as a **VII diluent oil**, offering light color, high saturates, low aromatics, low acidity, low water, very low metal content, and favorable low-temperature CCS performance, supporting clean and stable viscosity index improver concentrates.

### Features and Benefits:

YUNIBase 150 Plus+ combines VI 112 or higher, 98% saturates, low aromatics of 2%, air release of 2.8 minutes, water separability of 40/40/0 within 5 minutes, and CCS of 2,800–2,900 cP at -25°C. Together with its ISCC PLUS certification and PCF of 450 kg CO<sub>2</sub>e/MT, it provides lubricant formulators with a premium circular base oil offering Group II-like performance, lower-carbon positioning, and cost-effective formulation flexibility.

S.No.	PROPERTIES	METHOD	UNITS	LIMITS
1	Appearance	Visual	-	Clear & Bright
2	Density @15°C	D-1298	Kg/l	0.858 - 0.863
3	Color	D-1500	-	L1.7
4	Kinematic Viscosity @40°C	D-445	cSt	28 – 33
5	Kinematic Viscosity @100°C	D-445	cSt	5.00 - 5.60
6	Viscosity Index	D-2270	-	112 - 120
7	Flash Point, COC	D-92	°C	min 200
8	Flash Point, PMCC	D-93	°C	min 190
9	Pour Point	D-97	°C	max -12
10	Carbon Residue	D-4530	%w	max 0.05
11	Neutralization Number	D-974	mgKOH/gm	max 0.05
12	Sulfur Content	D-4294	ppm	max 800
13	Total Chlorine	D-4929	mg/kg	max 5
14	Water & Sediments	D-6304	mg/kg	max 70
15	Acid Number	D-664	mg/kg	max 0.04
16	Ash Content	D-482	%w	max 0.006
17	Copper Corrosion 3 hrs @100°C	D-130	-	1B
18	Glycol	D-4291	mg/kg	max 10
19	CCS @-25°C	D-5293	mPa.s	max 3000
20	CCS @-30°C	D-5293	mPa.s	max 5500
21	Saturates	In-House	%	98
22	Aromatics	D-2140	%	2
23	Paraffinic	D-2140	%	70
24	Naphthenic	D-2140	%	28

#### Produced by:

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## YUNIBase 150N+ API Group II / Premium Circular Base Oil

**YUNIBase 150N+** is a premium circular base oil, ISCC PLUS certified and PCF verified API Group II base oil. It offers lubricant formulators an optimal balance of high quality, low-carbon performance, and cost efficiency. **YUNIBase 150N+** can be used in high-performance industrial applications and may be evaluated for selected engine oil formulations.



### Applications:

**YUNIBase 150N+** is suitable for premium **industrial lubricant formulations**, including hydraulic oils, circulating oils, compressor oils, turbine-type oils, light gear oils, and general industrial oils. It may also be evaluated as a circular, low-carbon base oil component in **selected engine oil formulations** where Group II-like performance, good low-temperature behavior, and formulation flexibility are required.

**YUNIBase 150N+** is also suitable for evaluation as a viscosity index improver, **VII diluent oil**. Its light color, high saturates, low aromatics, low acidity, low water content, very low metal content, and favorable CCS performance support the preparation of clean and stable VII concentrates.

### Features and Benefits:

**YUNIBase 150N+** combines a viscosity index of 112 or higher, saturates of 99.6%, low aromatics of 0.40%, sulfur below 300 ppm, excellent air release of 2.2 minutes, water separability of 40/40/0 within 5 minutes, and CCS performance of 2,800–2,900 cP at -25°C. These properties provide lubricant formulators with a clean, stable, and high-quality circular base oil suitable for premium industrial lubricants and selected automotive applications. Together with ISCC PLUS certification and a verified PCF of 450 kg CO<sub>2</sub>e/MT, YUNIBase 150N+ supports lower-carbon lubricant formulations without compromising performance or formulation flexibility.

S.No.	PROPERTIES	METHOD	UNITS	LIMITS
1	Appearance	Visual	-	Clear & Bright
2	Density @15C	D-1298	Kg/l	0.85 - 0.86
3	Color	D-1500	-	L 0.5
4	Kinematic Viscosity @40C	D-445	cSt	28 – 33
5	Kinematic Viscosity @100C	D-445	cSt	5.00 - 5.60
6	Viscosity Index	D-2270	-	112 - 120
7	Flash Point, COC	D-92	°C	min 200
8	Flash Point, PMCC	D-93	°C	min 190
9	Pour Point	D-97	°C	max -12
10	Carbon Residue	D-4530	%w	max 0.05
11	NOACK	D-5800	%	max 14.5
12	Sulfur Content	D-4294	ppm	max 300
13	Total Chlorine	D-4929	mg/kg	max 5
14	Water & Sediments	D-6304	mg/kg	max 70
15	Acid Number	D-664	KOH/g	max 0.04
16	Ash Content	D-482	%w	max 0.006
17	Copper Corrosion 3 hrs @100°C	D-130	-	1B
18	Glycol	D-4291	mg/kg	max 10
19	CCS @-25°C	D-5293	mPa.s	max 3000
20	CCS @-30°C	D-5293	mPa.s	max 5500
21	Aromatic	D-2140	%	0.40
22	Paraffinic	D-2140	%	70.40
23	Naphthenic	D-2140	%	29.20
24	Saturates	In-House	%	99.6

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## YUNIBase 300 Plus+

### Group II-Like Performance Characteristics Premium Circular Group I+ Base Oil

YUNIBase 300 Plus+ is a premium circular, ISCC PLUS-certified and PCF-verified Group I+ base oil. It offers lubricant formulators an optimal balance of high quality, lower carbon footprint, and cost efficiency. YUNIBase 300 Plus+ can be used for all high performance Industrial Applications and selected engine oil formulations.

### Applications:

YUNIBase 300 Plus+ is suitable for premium **industrial lubricant formulations** such as hydraulic oils, circulating oils, compressor oils, turbine-type oils, light gear oils, and general industrial oils. It may also be evaluated as a circular, lower-carbon base oil component in **selected engine oil formulations** where Group II-like performance, good low-temperature properties, and formulation flexibility are required.

### Features and Benefits:

YUNIBase 300 Plus+ offers a strong balance of performance, circularity, and cost efficiency. With a viscosity index of 112–120, high saturates content of 97%, low aromatics of 3%, light color of L1.7, air release of 3.6 minutes, and excellent water separability of 40/40/0 within 10 minutes, it is suitable for premium industrial lubricants requiring cleanliness, aeration control, and water separation performance. As an ISCC PLUS-certified and PCF-verified circular base oil, it helps lubricant formulators develop lower-carbon products while maintaining strong technical performance.

S.No.	PROPERTIES	METHOD	UNITS	LIMITS
1	Appearance	Visual	-	Clear & Bright
2	Density @15°C	D-1298	Kg/l	0.862 - 0.867
3	Color	D-1500	-	L1.7
4	Kinematic Viscosity @40°C	D-445	cSt	Min 52
5	Kinematic Viscosity @100°C	D-445	cSt	7.25 – 8.25
6	Viscosity Index	D-2270	-	112 - 120
7	Flash Point, COC	D-92	°C	min 225
8	Flash Point, PMCC	D-93	°C	min 200
9	Pour Point	D-97	°C	max -12
10	Carbon Residue	D-4530	%w	max 0.05
11	NOACK	D-5800		max 7.5
12	Sulfur Content	D-4294	ppm	max 1000
13	Total Chlorine	D-4929	mg/kg	max 5
14	Water & Sediments	D-6304	mg/kg	max 50
15	Acid Number	D-664	KOH/g	max 0.04
16	Ash Content	D-482	%w	max 0.006
17	Copper Corrosion 3 hrs @100°C	D-130	-	1B
18	Glycol	D-4291	mg/kg	max 10
19	CCS @-25°C	D-5293	mPa.s	max 7800
20	CCS @-30°C	D-5293	mPa.s	max 16000
21	Saturates	In-House	%	97
22	Aromatics	D-2140	%	3
23	Paraffinic	D-2140	%	75
24	Naphthenic	D-2140	%	22

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