Group III Base Oil ICCSYN 6 (CTL technology)

Technical specifications

Inspection date: 2026-08-14

Specification limits and measured results are separate. Results apply to the source sample or batch and may vary between deliveries.

Parameter / unit	Specification	Measured result	Test method
Appearance	Transparent	Transparent	Visual
Kinematic viscosity at 100 °C (cSt)	5.50 to <6.50	6.249	GB/T 265-1988
Kinematic viscosity at 40 °C (cSt)	Report	34.27	GB/T 265-1988
Viscosity index	≥120	133	GB/T 1995-1998
Color number	≤0.5	<0.5	GB/T 6540-2025
Flash point, open cup (°C)	≥210	244	GB/T 3536-2008
Pour point (°C)	≤-18	-42	GB/T 3535-2025
Cloud point (°C)	≤-10	-31	GB/T 6896-2014
Density at 20 °C (kg/m³)	Report	824.4	GB/T 1884-2000
Acid number (mg KOH/g)	≤0.01	0.004	GB/T 4945-2002
Sulfur (μg/g)	≤10	1.2	SH/T 0689-2000
Saturates (mass %)	≥98	99.2	SH/T 0607-1994
Low temperature dynamic viscosity at -30 °C (mPa·s)	Report	3528	GB/T 6538-2022
Rotating pressure vessel oxidation at 150 °C (min)	≥300	363	SH/T 0193-2022
Evaporation loss at 250 °C, 1 h (mass %)	≤9	6.9	SH/T 0059-2010

Source document: Dream_Petroleum_CTL-6_Specification (1).pdf

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Additional sample certificate

Specification limits and measured results are separate. Results apply to the source sample or batch and may vary between deliveries.

Parameter / unit	Specification	Measured result	Test method
Appearance	Clear	Clear	Visual Inspection
Kinematic Viscosity @100°C (cSt)	5.50-<6.50	6.232	GB/T 265-1988
Kinematic Viscosity @40°C (cSt)	Report	34.10	GB/T 265-1988
Viscosity Index	Min. 120	134	GB/T 1995-1998
Color (ASTM)	Max. 0.5	<0.5	GB/T 6540-2025
Flash Point (COC) (°C)	Min. 210	252	GB/T 3536-2008
Pour Point (°C)	Max. -18	-45	GB/T 3535-2025
Cloud Point (°C)	Max. -10	-32	GB/T 6896-2014
Density @20°C (kg/m³)	Report	821.8	GB/T 1884-2000
Acid Number (as KOH) (mg KOH/g)	Max. 0.01	0.004	GB/T 4945-2002
Sulfur Content, µg/g (ppm)	Max. 10	1.2	SH/T 0689-2000
Saturates, wt.%	Min. 98	99.2	SH/T 0607-1994
CCS Dynamic Viscosity @-30°C (mPa·s)	Report	3424	GB/T 6538-2022
Rotating Pressure Vessel Oxidation Test (RPVOT) @150°C (min)	Min. 300	363	SH/T 0193-2022
Noack Evaporation Loss (250°C, 1 h), wt.%	Max. 9	5.0	SH/T 0059-2010

Source document: CTL6 DP Specs.pdf