

BNM Group / BNM Petroleum

Technical Reference Sheet

Material	Base Oil	Document ID	TR-ARAMCO-BASEOIL-DURA500
Grade	SN500 / aramcoDURA 500	Date Generated	2026-09-11
Reference Producer	Saudi Aramco / Luberef	Producer Country	Saudi Arabia

1. Reference Scope

This Technical Reference Sheet provides technical properties for **Base Oil**, grade/designation **SN500 / aramcoDURA 500**, as referenced from the official producer source cited below. It is intended for commercial pre-qualification and technical comparison only.

Reference Producer: Saudi Aramco / Luberef | **Producer Grade:** SN500 / aramcoDURA 500

2. Application

A medium-viscosity (SN500-equivalent) Group I paraffinic base oil used as a blending component for heavier-duty automotive and industrial finished lubricants where higher viscosity and low sulfur are required.

3. Technical Properties

Property	Value	Unit	Test Method	Condition	Source Page
Appearance	Visual	—	Visual (no ASTM code shown)	—	1
Kinematic Viscosity @ 40°C	91-101	cSt	ASTM D445	—	1
Kinematic Viscosity @ 100°C	Report	cSt	ASTM D445	—	1
Viscosity Index	97	—	ASTM D2270	—	1
Sulfur Content	1.3‡	ppm	ASTM D5453	‡ = tested per ASTM D2622 (footnote)	1
Pour Point	-6*	°C	ASTM D5950	* = tested per ASTM D97 (footnote)	1
Density @ 15.6°C	Report	kg/L	ASTM D4052	—	1
Color, ASTM	2.5	—	ASTM D1500	—	1
Flash Point, COC	227	°C	ASTM D92	—	1
Flash Point, PMCC	210+	°C	ASTM D93	—	1
Furfural Content	5	ppm	M-1414	—	1
Copper Strip Corrosion	1a	—	ASTM D130	100°C, 3 hrs	1
Conradson Carbon Residue	0.1	wt%	ASTM D4530	—	1
Neutralization No.	0.05	mgKOH/g	ASTM D974	—	1
Ash	0.01	wt%	ASTM D482	—	1

5. Commercial / Technical Notes

- KV@40°C (91-101 cSt) and Flash Point ($\geq 210^{\circ}\text{C}$) independently cross-confirmed against the companion official Luberef SDS (aramcoDURA 500, Rev 2.0, issued 30 Aug 2020, superseding a 31 Jul 2017 version, Saudi Aramco Luberef Co., Jeddah). The SDS's own revision history predates this 2019-dated TDS batch; the two dates are not assumed to be the same event.
- Same 'Group I Typical' comparison column and unresolved 'C & B' label issue noted as in the DURA150 record.
- KV@100°C and Density shown as 'Report' per source qualifier, not an extraction gap.

7. Source Attribution

Official Source URL	https://www.aramco.com/-/media/downloads/creating-value/base-oils/aramcodura/aramcodura_2019_february/dura_500_30jan2019_en.pdf
Source Document Title	not shown on document (product code "500" and typical-properties table only; no printed title text found)
Source Revision	not shown on document
Source Document Date	not shown on document; inferred as 30 Jan 2019 from source filename/URL path only (unconfirmed as printed text)
Source Document Type	Technical Data Sheet (typical properties table, single page)
Source Verified	Yes
Exact Grade Match	Yes

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8. BNM Disclaimer

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