



M Chemicals

BASE OILS / GROUP III / VHVI 4 CST

VHVI 4 CST

Indexes of Quality	Test Method	Unit	Normative Requirements
Kinematic Viscosity at 100°C	ASTM D 445	mm ² /s	3,9-4,6
Viscosity Index	GOST 25371	mm ² /s	Min 125
Flash Point	ASTM D 92	°C	Min 210
Pour Point	ASTM D 97	°C	Not Above Minus 15
Color	GOST 20284	%	Max 1,0
Sulphur Content	GOST R 51947	%	Max 0,03
Water Content	GOST 2477	%	None
Mechanical Impurities Content	GOST 6370	%	None
NOACK Value	ASTM D 5800	wt%	Max 15
Density at 15°C	GOST R 51069	kg/m ³	Not Rated, to Be Detirmined
Visual Appearance	Visual	-	Clean, Clear Liquid Without Sediment; Colorless
Content of Selective Solvent	GOST R 52532	%	-



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Parameter	Result	Analysis Method
Kinematic Viscosity at 40°C, cSt	28,16	TS EN ISO 3104, ASTM D445
Kinematic Viscosity at 100°C, cSt	5,332	TS EN ISO 3104, ASTM D445
Viscosity Index (VI)	125	TS ISO 2909, ASTM D2270
Density at 15°C, kg/m ³	843,9	TS EN ISO 12185, ASTM D4052
Evaporation Loss (Noack), % (w/w)	10,8	TS 13489, ASTM D5800
Pour Point, °C	-9	ASTM D5950
Base Number TBN, mg KOH/g	0,1	TS 5655 ISO 3771, ASTM D2896
KF Water Content, mg/kg	44	TS 6147 EN ISO 12937, ASTM D6304
Sulphur (S) Content, mg/kg	36	ASTM D5453
Clorine (Cl) Content, mg/kg	<1,00	EPA 9076
Color, ASTM	L 0,5	TS 1713 ISO 2049, ASTM D1500
Flash Point (Open Cup), °C	227	TS EN ISO 2592, ASTM D92
Flash Point (Open Cup), °C	215	ASTM D6450, ASTM D7094



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Property	Unit	Limit		Test Method
		Min	Max	
Appearance	-	Clear and bright		ASTM D4176-1
Viscosity, Kinematic @ 100°C	mm ² /s	5.8	6.2	ASTM D445
Viscosity, Kinematic @ 40°C	mm ² /s	Report		ASTM D445
Viscosity Index	-	125	-	ASTM D2270
Pour Point	°C	-	-15	ASTM D97 ASTM D5949 or ASTM D5950
Flash Point, (COC)	°C	220	-	ASTM D92
Evaporation Loss, Noack Method	% M/M	-	8.0	ASTM D5800 Method B
Apparent Viscosity by CCS @ - 30°C	mPas	-	4500	ASTM D5293
Sulfur	mg/kg	-	10	ASTM D2622
Water	mg/kg	-	50	ASTM D6304
Color, Saybolt	-	+20	-	ASTM D156
Density	g/mL	Report		ASTM D4052
Copper Corrosion, 3hrs @ 100°C	-	Report		ASTM D130
Acid No. mg KOH/g	mgKOH/g	Report		ASTM D664
Carbon Residue	% (m/m)	Report		ASTM D524 ASTM D4530 or ISO 4262
Saturates	mass %	Report		ASTM D2007 ASTM D7419 or IP 368
Aromatics	mass %	Report		ASTM D2007 ASTM D7419 or IP 368
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