

PROGRESS-N TYPE

MAIN QUALITY SPECIFICATIONS						
	TEST METHOD	SAE 5W-30 API SH, SG/CD	SAE 5W-40 API SH, SG/CD	SAE 10W-30 API SH, SG/CD	SAE 10W-40 API SH, SG/CD	SAE 15W-40 API SH, SG/CD
Kinematics Viscosity at 100 °C, mm²/sec, within limits	ASTM D 445 (GOST 33)	10.5 – 12.5	13.5 – 16.3	10.5 – 12.5	13.5 – 16.3	13.5 – 16.3
Viscosity Index, min.	ASTM D 2270 (GOST 25371)	140	140	120	120	120
Dynamic Viscosity, cP, max.:						
• at minus 20 °C		-	-	-	-	7 000
• at minus 25 °C	ASTM D 5293	-	-	7 000	7 000	-
• at minus 30 °C		6 600	6 600	-	-	-
Dynamic Viscosity, cP, max.:						
• at minus 25 °C		-	-	-	-	60 000
• at minus 30 °C	ASTM D 4684	-	-	60 000	60 000	-
• at minus 35 °C		60 000	60 000	-	-	-
Evaporation Losses (by NOACK), mass %, max.	ASTM D 5800 DIN 51581 (GOST 38.01381)	No norm. Mandatory determination				
Total Acid Number, mg KOH/1 g oil, min.	GOST 11362 with amend. 5.2 of TU	7.0				
Sulfated ash, mass %, max.	ASTM D 874 (GOST 12417)	1.3				
Mechanical impurities content, %, max.	GOST 6370 with amend.5.3 of TU	0.015				
Water content, %, max.	ASTM D 95 (GOST 2477)	Traces				
Pour Point, °C, max.	ASTM D 97 (GOST 20287 method B)	minus 45	minus 45	minus 35	minus 35	minus 30
Flash point, in open cup, °C, min.	ASTM D 92 (GOST 4333)	200	200	205	205	210
Copper Strip Test at 100 °C made within 3 hours on copper plates M1 or M1K, (GOST 859), points, max.	ASTM D 130 (GOST 2917)	1v				
Foam Formation, sm³, max.						
• at 24 °C	ASTM D 892 (GOST 23652	10				
• at 94 °C	(per 5.5))	50				
• at 24 °C after testing at 94°C		10				
Active elements content, %, min.	ASTM D 6481, 4628 or (GOST 13538)	No norm. Determination is compulsory for annual statistics.				
• calcium + magnesium		0.10				
• zinc	ASTM D 6481 (GOST 9827)	0.12				
• phosphorus, max.						
Density at 20 °C, kg/m³,	ASTM D 1298 (GOST 3900)	No norm. Mandatory determination				

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