

BASE POLYALFAOLEFINE OILS (PAO) (TU 0253-004-5449843-2004)

Polyalphaolefine Base Oils are implemented for production of lubricants for technical use as the basic component.

MAIN QUALITY SPECIFICATIONS						
	TEST METHOD	PAO-2	PAO-4			PAO-5
			Type 1	Type 2	Type 3	
Kinematic Viscosity, mm²/sec, within limits: • at 100 °C • at 40 °C	GOST 33 (ASTM D 445)	1.7-2.0	3.8-4.1	3.8-4.2	3.8-4.3	4.8-5.3
		6.0	19	20	22	28
Viscosity Index, min.	GOST 25371 (ASTM D 2270)	n/a	120	117	115	120
Density at 20 °C, kg/m³, within limits	GOST 3900 (ASTM D 1298, ASTM D 4052)	780-815	818 - 825			830-830
Pour Point, °C, max.	GOST 20287 (ASTM D 97)	-60 °C	-70 °C	-65 °C	-65 °C	-60 °C
Flash Point in Open Cup, °C, min.	GOST 4333 (ASTM D 92)	155	210			220
Flash Point in Closed Cup, °C, min.	GOST 6356	150	-			-
Total Acid Number, mg KOH/g of oil, max.	GOST 5985 (ASTM D 974)	None	0.01			0.01
Colour on Colorimeter Pt-Ha Scale, unit, max.	GOST 29131	10	10			-
Colour at Colorimeter CNT, CNT Units, max.	GOST 20284 (ASTM D 1500)	0.5	0.5			0.5
Mechanical Impurities Content	GOST 6370	n/a	n/a			n/a
Water Content	GOST 2477 (ASTM D 95)	n/a	n/a			n/a
Volatility, mass % max.	ASTM D 5800 Procedure B	n/a	15			13
Bromine Number, 1g Br₂/100 g, max.	IP 129 and TU Item 5.2	0.2	0.2			0.4

Supply Form:	Homogeneous oily liquid; transparent, colorless vs. yellowish, with moderate odor, without additives
Packaging:	Product is shipped in aluminium and steel drums, metal and polymer canisters in covered wagons and universal containers; in specialized tank-containers(ISO-containers)
Transportation:	Product is transported by all kind of transport in accordance with cargo transportation rules existing for the relevant kind of transportation
Storage:	Storage at warehouses in tightly closed steel drums or steel tanks

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MAIN QUALITY SPECIFICATIONS							
	ASTM TEST	PAO-6			PAO-7	PAO-8	
		Type 1	Type 2	Type 3		Type 1	Type 2
Kinematic Viscosity, mm²/sec, within limits: • at 100 °C • at 40 °C	GOST 33 (ASTM D 445)	5.8-6.1	5.8-6.3	5.8-6.5	6.8-7.2	7.8-8.1	8.1-8.3
		34	36	39	n/a	n/a	n/a
Viscosity Index, min.	GOST 25371 (ASTM D 2270)	130	125	120	120	130	125
Density at 20 °C, kg/m³, within limits	GOST 3900 (ASTM D 1298)	825 – 835			825-835	830-840	
Pour Point, °C, max.	GOST 20287 (ASTM D 97)	-60°C			-60°C	-55°C	
Flash Point in Open Cup, °C, max.	GOST 4333 (ASTM D 92)	240	235	235	240	240	235
Total Acid Number, mg KOH/g of oil	GOST 5985 (ASTM D 974)	0.01	0.01	0.01	0.01	0.01	
Colour on Colorimeter Pt-Ha Scale, units, max.	GOST 29131	15	15	15	n/a	n/a	
Colour at Colorimeter CNT, CNT Units, max.	GOST 20284 (ASTM D 1500)	0.5	0.5	0.5	0.5	0.5	
Mechanical Impurities Content	GOST 6370	n/a	n/a	n/a	n/a	n/a	
Water Content	GOST 2477 (ASTM D 95)	n/a	n/a	n/a	n/a	n/a	
Volatility, mass % max.	ASTM D5800 Prodecure B	8	9	9	7	6	7
Bromine Number, 1g Br₂/100 g, max.	IP 129 & TU Item 5.2	0.4	0.4	0.4	0.4	0.4	

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MAIN QUALITY SPECIFICATIONS						
	ASTM TEST	PAO-9 Typical Value	PAO-10 Typical Value	PAO-11 Typical Value	PAO-12 Typical Value	PAO-13 Typical Value
Kinematic Viscosity, mm²/sec, within limits: * at 100 °C	GOST 33 (ASTM D 445)	8.8-9.2	9.8-10.2	10.8-11.2	11.5-12.5	12.5-14.0
Viscosity Index, min.	GOST 25371 (ASTM D 2270)	125	125	125	125	130
Density at 20 °C, kg/m³, within limits	GOST 3900 (ASTM D 1298)	830-840	830-840	835-845	835-845	838-848
Pour Point, °C, max.	GOST 20287 (ASTM D 97)	-55°C	-50°C	-50°C	-50°C	-45°C
Flash Point in Open Cup, °C, max.	GOST 4333 (ASTM D 92)	250	260	270	270	270
Total Acid Number, mg KOH/g of oil	GOST 5985 (ASTM D 974)	0.01	0.01	0.01	0.01	0.01
Colour on Colorimeter CNT, CNT unit	GOST 20284 (ASTM D 1500)	0.5	0.5	0.5	0.5	0.5
Mechanical Impurities Content	GOST 6370	n/a	n/a	n/a	n/a	n/a
Water Content	GOST 2477 (ASTM D 95)	n/a	n/a	n/a	n/a	n/a
Volatility, mass %, max	ASTM D 5800 Procedure B	6	5	5	4	3
Bromine Number, 1g Br₂/100 g, max.	IP 129 & per TU Item 5.2	0.5	0.5	0.5	0.5	0.5

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