

The background of the entire page is a close-up, high-contrast photograph of industrial machinery. A series of horizontal, polished metal rollers are visible, with a thick, golden-brown oil dripping from the bottom of the frame. The lighting is dramatic, with strong highlights on the metal surfaces and deep shadows in the background.

Rokolub[®]

Polyalkylene Glycol Base Stocks

Local. Global. Integrated.

Operating in 17 countries, in 39 different locations, PCC SE currently employs over 3 300 people.



About us

The PCC Group is an international capital structure made up of dozens of companies operating in three major sectors of the economy: Chemicals, Energy and Logistics. The organisations within the PCC Group are both business units engaged in production activities and service companies operating simultaneously for the external market.

The PCC Group is centrally managed by the German company PCC SE and comprises more than 74 companies at 39 locations in 17 countries around the world. One of the key elements of PCC SE's strategy is the dynamic development of the chemicals business by exploiting

the potential of new market segments and diversifying the portfolio of raw materials and chemical formulations in line with current trends in various industries. Every day, our specialists work on the stable growth and development of their organisations, making the PCC Group stronger and building a solid business platform for all contractors interested in reliable and longterm cooperation.

PCC ROKITA SA PCC PCG OXYALKYLATES IRPC	PCC ROKITA SA	PCC ROKITA SA	PCC EXOL SA PCC CHEMAX INC PCC PCG OXYALKYLATES	PCC SYNTEZA
Polyols 	Chlorine 	Phosphorus 	Surfactants 	Alkylphenols 
<ul style="list-style-type: none"> • Polyether polyols • Polyester polyols • Prepolymers • Polyurethane Systems 	<ul style="list-style-type: none"> • Chlorine • MCAA • Other Chlorine Downstream Product 	<ul style="list-style-type: none"> • Phosphorus derivatives • Naphthalene derivatives • Polycarboxyethers (PCE) 	<ul style="list-style-type: none"> • Anionic surfactants • Cationic surfactants • Nonionic surfactants • Amphoteric surfactants (betaines) • Chemical formulation 	<ul style="list-style-type: none"> • Nonylphenol • Dodecylphenol • Tristyrylphenol
PCC CONSUMER PRODUCTS SA	PCC ROKITA SA	PCC INTERMODAL SA	PCC BAKKISILICON HF.	PCC SE
Consumer Products 	Energy 	Logistics 	Silicon 	Holding & Projects 
<ul style="list-style-type: none"> • Household & industrial Cleaners, Detergents and Personal Care Products 	<ul style="list-style-type: none"> • Renewable Energy • Conventional Energy 	<ul style="list-style-type: none"> • Intermodal transport • Road Haulage • Rail Transport 	<ul style="list-style-type: none"> • Microsilica • Silicon Metal 	<ul style="list-style-type: none"> • Portfolio Management • Project Development

General info & uses

Rokolub® series are synthetic base stocks, components, and additives. These products are targeted at formulators focused on developing new solutions which meet the highest market requirements and demands. The Rokolub® series products exhibit excellent lubricity, and provide anti-wear and extreme pressure performance, maintaining high viscosity index, low pour point, and sludge deposit control. This makes Rokolub® products the perfect

choice for various lubricant applications. These unique properties are a result from the chemical structure of each of the products.

Rokolub® series products are polyalkylene glycol random copolymers consisting of ethylene (EO) and propylene (PO) oxide. Rokolub® products are characterized by EO/PO ratio and by their alcohol initiator.

Benefits:

- long-life and lower cost: intrinsic synthetic performance
- eco-friendly choice
- cost saving on expensive additives thanks to excellent properties

Rokolub® product family include:

Rokolub® 50-B series

Equal weight amount of ethylene oxide, and propylene oxide; molecules are finished with one terminal hydroxyl group. Rokolub® 50-B series are water-soluble products. The number at the end of the name shows the viscosity in 40°C (Table 2).

Rokolub® 60-D series

60 weight percent of ethylene oxide, and 40 weight percent of propylene oxide; molecules are finished with two terminal hydroxyl groups. Rokolub® 60-D series are water-soluble products. The number at the end of the name shows the viscosity at 40°C (Table 2).

Rokolub® P-B series

Molecules contain only propylene oxide, and are finished with one terminal hydroxyl group. Rokolub® P-B series are water-insoluble products. The number at the end of the name shows the viscosity at 40°C (Table 4).

Rokolub® PO-D series

Molecules contain only propylene oxide, and are finished with two terminal hydroxyl groups. Rokolub® PO-D series are water-insoluble products. The number at the end of the name shows viscosity at 40°C (Table 4).

Rokolub® water-insoluble/ partially water-soluble series

This group is characterized by different EO:PO ratios, and typically has two or three terminal hydroxyl groups. The number at the end of the name shows the viscosity at 40°C (Table 6).

Rokolub® MOS series

Rokolub® MOS series are mineral-oil-soluble products. The miscibility with Gr.I to Gr.IV mineral oils was achieved thanks to the unique chemical structure (Table 12).

Rokochem® series

Rokochem® series are high purity products meeting the market highest requirements. More informations about Rokochem® polyether polyols can be found in a dedicated brochure.

Rokolub® Polyalkylene Glycol Base Stocks

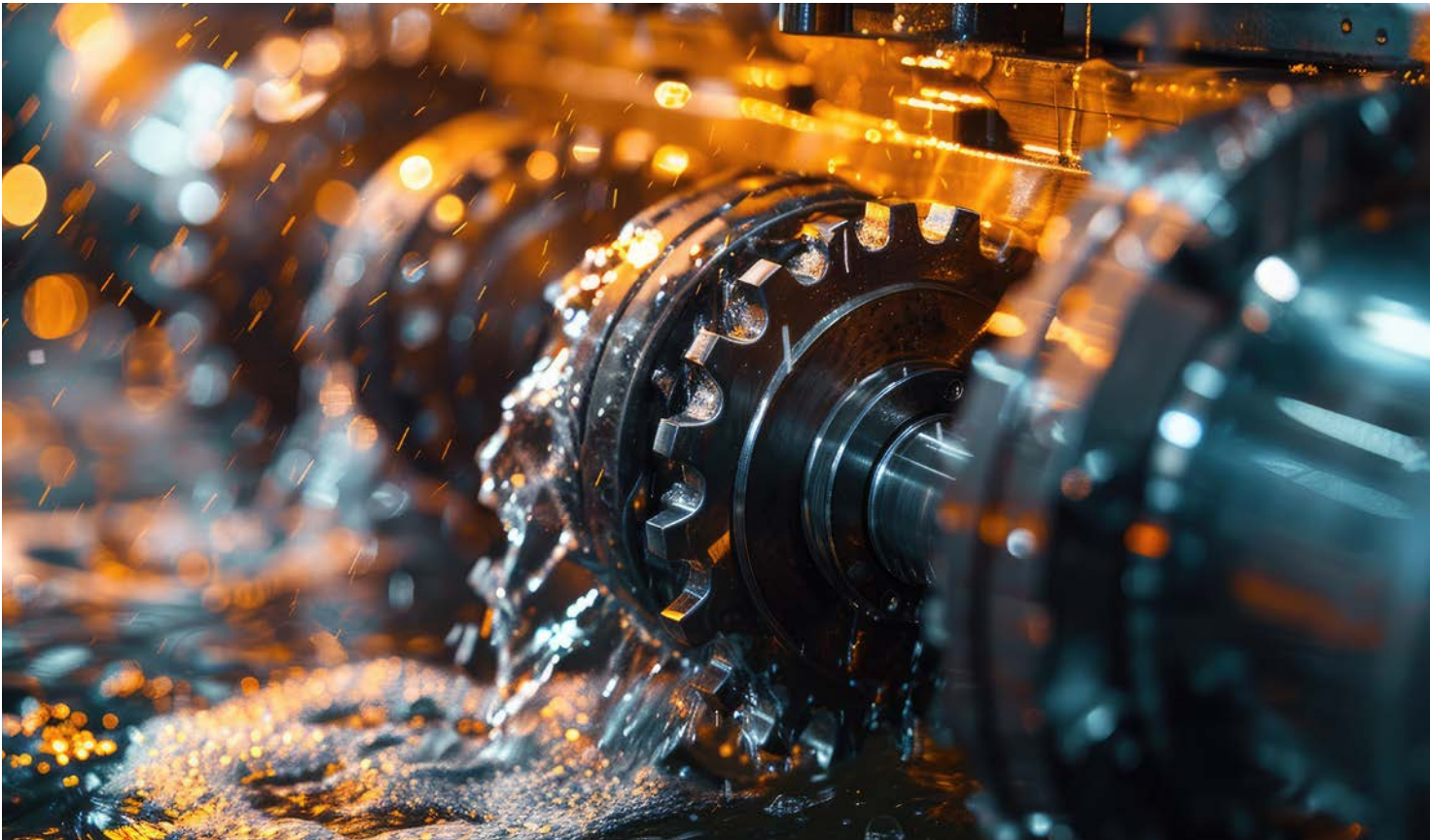
Unique properties & applications

Polyalkylene glycols base stocks show unique properties in comparison to other base stocks like petroleum derivatives, group

I – III (Mineral Oil) and also better results compared with Group IV derivatives, polyalphaolefins (PAOs).

Features	Mineral Oils Group I-III	PAO Synthetic	PAG
Viscosity wide range	poor	very good	excellent
Viscosity index	poor	very good	excellent
Low temperature	poor	very good	very good
Lubricity	poor	good	very good
Additive solubility	very good	poor	very good
Cleanliness, no sludge formation	poor	good	excellent

Table 1. Group I-V base stocks properties comparison
Rokolub® series are available in ISO viscosity range from 10 to 1000 and viscosity index (VI) mostly above 180. Typical applications are shown in Tables 9, 10 and 11.



Rokolub® Polyalkylene Glycol Base Stocks

Water-soluble PAG – physical and chemical properties¹⁾

Product name	ISO Viscosity Grade	Molecular Weight, Mw [g/mol] ²⁾	Kinematic Viscosity at 40°C [cSt] ASTM D445	Kinematic Viscosity at 100°C [cSt] ASTM D445	Viscosity Index ASTM D2270	Flash Point [°C] ASTM D92	Cloud Point 1% aqua [°C] EN1890:2006 met.A	Pour Point [°C] ASTM D97	Density in 20°C [g/cm ³] DIN 51757
Rokolub® 50-B-10	10	450	11	3.1	151	>120	n/o*	<(-40)	1.02
Rokolub® 50-B-20	22	550	22	5.2	180	>180	71	<(-40)	1.02
Rokolub® 50-B-32	32	700	34	7.4	192	>250	71	<(-61)	1.03
Rokolub® 50-B-46	46	1075	49	10	220	>240	59	<(-43)	1.03
Rokolub® 50-B-68B	68	1100	70	14	214	>240	59	<(-43)	1.04
Rokolub® 50-B-100	100	1300	95	18	220	>240	59	<(-43)	1.04
Rokolub® 50-B-120	100+	1500	130	25	227	>240	58	<(-43)	1.04
Rokolub® 50-B-130	100+	1700	138	27	234	>250	27 ³⁾	<(-43)	1.05
Rokolub® 50-B-150	150	1800	153	30	238	>250	56	<(-43)	1.05
Rokolub® 50-B-220	220	2200	225	42	242	>220	55	<(-40)	1.05
Rokolub® 50-B-330	320	2700	328	61	257	>220	53	<(-35)	1.05
Rokolub® 50-B-400	320+	3245	401	72	258	>220	52	<(-35)	1.05
Rokolub® 50-B-460	460	3500	455	78	254	>220	50	<(-35)	1.05
Rokolub® 50-B-680	680	3800	612	105	267	>220	50	<(-30)	1.06
Rokolub® 50-B-1000	1000	5500	1014	130	237	>230	46	<(-25)	1.05
Rokolub® 60-D-68	68	900	65	12	184	>220	n/o*	<(-38)	1.06
Rokolub® 60-D-150	150	1800	155	27	212	>220	n/o*	<(-35)	1.07
Rokolub® 60-D-220	220	2000	230	42	238	>240	83	<(-35)	1.07
Rokolub® 60-D-320	320	2400	315	56	246	>220	80	<(-35)	1.07
Rokolub® 60-D-460	460	3500	470	79	251	>220	73	<(-30)	1.07
Rokolub® 60-D-1000	1000	5600	956	165	288	>220	72	<(-26)	1.07
Rokolub® WS 460	460	–	471	81	256	>220	67	<(-30)	1.07
Rokolub® WS 680	680	–	710	124	278	>220	58	<(-20)	1.06
Rokolub® PE400	46	400	43	7.8	153	~200	n/o*	~5	1.12

Table 2. Water-soluble Rokolub® properties – EO/PO random copolymers and EO homopolymers

Notes:

1) Table content reflects typical properties, and shall not be taken as specification.

2) Molecular weight was calculated from hydroxyl number (internal method, based on standard ASTM D4274-16).

3) Cloud Point for Rokolub® 50-B-130 sample is lower due to additive used.

* n/o - not observed (according to standard determined from 10°C to 90°C)

Rokolub® Polyalkylene Glycol Base Stocks

Water-soluble PAG – application properties¹⁾

Product name	Tendency to foam PN-ISO 6247 ²	Foaming Characteristic PN-ISO 6247 ² I sequence 24°C		Foaming Characteristic PN-ISO 6247 ² II sequence 93.5°C		Air Release ASTM D 3427 ³ [min]	Cu Corrosion ASTM D2619 ⁴ Copper strip	Extreme Pressure (EP) ASTM D2783-03		Anti-Wear (AW) ASTM D4172-94 Scar diameter [mm]
		5 min aeration [mL]	10 min foam stability [mL]	5 min aeration [mL]	10 min foam stability [mL]			Last non- seizure load [N]	Weld point [N]	
Rokolub® 50-B-10	Yes	220	0	0	0	0.9	2b	490	1236	0.59
Rokolub® 50-B-20	Yes	300	0	30	0	2	2c	490	1236	0.59
Rokolub® 50-B-32	Yes	550	0	50	0	3	2c	490	1236	0.56
Rokolub® 50-B-46	Yes	640	0	60	0	4	2c	618	1236	0.50
Rokolub® 50-B-68B	Yes	520	0	230	0	7	2b	618	1236	0.54
Rokolub® 50-B-100	Yes	730	70	320	0	2	2c	618	1236	0.50
Rokolub® 50-B-120	Yes	500	10	100	0	5	2c	784	1236	0.47
Rokolub® 50-B-130	Yes	500	0	–	–	5	2c	784	1236	0.47
Rokolub® 50-B-150	Yes	500	0	550	0	5	2c	784	1236	0.45
Rokolub® 50-B-220	Yes	600	0	500	0	10	2c	784	1236	0.43
Rokolub® 50-B-330	Yes	650	590	420	0	15	2c	784	1236	0.42
Rokolub® 50-B-400	Yes	650	270	500	0	14	2e	784	1236	0.43
Rokolub® 50-B-460	Yes	650	100	540	0	16	2c	784	1236	0.42
Rokolub® 50-B-680	Yes	640	130	520	0	20	3a	784	1569	0.43
Rokolub® 50-B-1000	No	0	0	0	0	>30	1b	981	1569	0.40
Rokolub® 60-D-68	Yes	760	510	160	0	12	2b	618	1236	0.46
Rokolub® 60-D-150	Yes	170	0	430	0	6	1b	784	1236	0.50
Rokolub® 60-D-220	Yes	780	720	740	0	15	2a	981	1236	0.46
Rokolub® 60-D-320	Yes	750	650	800	0	18	2a	981	1236	0.43
Rokolub® 60-D-460	Yes	480	370	630	60	28	2a	981	1569	0.43
Rokolub® 60-D-1000	Yes	450	270	700	450	>30	2a	981	1569	0.40
Rokolub® WS 460	Yes	480	230	220	0	29	2b	981	1236	0.46
Rokolub® WS 680	Yes	230	0	210	0	>30	2c	981	1569	0.46
Rokolub® PE400	No	50	0	0	0	15	2a	618	1236	0.71

Table 3. Water-soluble Rokolub® properties – EO/PO random copolymers and EO homopolymers

Notes:

1) Table content reflects typical properties, and shall not be taken as specification.

2) Foaming Characteristic according to standard PN-ISO 6247, foam after 5 minutes of aeration, foam stability after 10 minutes after end of aeration.

3) Air Release according to standard ASTM D3427. The temperature of measurement depends on the kinematic viscosity of the oil at 40°C. Oil viscosity from 9 to 90cSt - 50°C; above 90cSt - 75°C.

4) Copper corrosiveness according to standard ASTM D2619. 1a – 1b – slight tarnish; 2a – 2e – moderate tarnish, 3a – 3b – dark tarnish, 4a – 4c – corrosion.

Rokolub® Polyalkylene Glycol Base Stocks

Water-insoluble PAG – physical and chemical properties¹⁾

Product name	ISO Viscosity Grade	Molecular Weight, Mw [g/mol] ²	Kinematic Viscosity at 40°C [cSt] ASTM D445	Kinematic Viscosity at 100°C [cSt] ASTM D445	Viscosity Index ASTM D2270	Flash Point [°C] ASTM D92	Pour Point [°C] ASTM D97	Density in 20°C [g/cm ³] DIN 51757
Rokolub® P-B-10	10	300	13	3.0	110	>160	<(-30)	0.96
Rokolub® P-B-20	22	550	22	5.0	163	>200	<(-43)	0.99
Rokolub® P-B-32	32	750	34	7.1	178	>210	<(-43)	0.99
Rokolub® P-B-32B	32	750	32	7	175	>210	<(-43)	0.99
Rokolub® P-B-46	46	1050	46	9.3	191	>210	<(-42)	0.99
Rokolub® P-B-50	46+	1100	56	11	193	>220	<(-42)	0.99
Rokolub® P-B-68	68	1200	69	13	192	>220	<(-40)	0.99
Rokolub® P-B-80	68+	1230	72	14	196	>220	<(-36)	0.99
Rokolub® P-B-100	100	1400	100	18	200	>220	<(-36)	0.99
Rokolub® P-B-120	100+	1750	117	21	206	>220	<(-36)	0.99
Rokolub® P-B-150	150	1900	144	25	208	>230	<(-36)	0.99
Rokolub® P-B-220	220	2450	209	35	216	>230	<(-30)	1.00
Rokolub® P-B-320	320	4600	329	52	224	>230	<(-30)	1.00
Rokolub® PO-D-20	22	220	24	3.0	n/a	>200	<(-30)	1.01
Rokolub® PO-D-460	460	4000	425	64	226	>200	<(-32)	1.00
Rokolub® PO-D-700	680+	6000	760	114	252	>200	<(-30)	1.00
Rokolub® PO-D-1000B	1000	7000	998	143	257	>200	<(-26)	1.00
Rokolub® PO-D-10000	10000	18000	10949	1427	383	>200	<0	1.00
Rokolub® 68	68	1000	65	10	139	>200	<(-36)	1.00
Rokolub® 150	150	2000	151	22	173	>200	<(-34)	1.00
Rokolub® 220 VI	220+	3600	260	38	198	>250	<(-30)	1.02
Rokolub® 320K	320+	5000	360	55	221	>200	<(-30)	1.02
Rokolub® 460	460+	6000	520	80	239	>200	<(-20)	1.02
Rokolub® DE4010	320	3700	318	50	221	>200	<(-20)	1.02
Rokolub® DE4020	320+	4000	367	60	235	>200	<(-20)	1.02
Rokolub® B-10M	10	360	10	2.7	110	>140	<(-40)	0.98

Table 4. Water-insoluble Rokolub® properties – PO homopolymers and EO/PO random copolymers

Notes:

1) Table content reflects typical properties, and shall not be taken as specification.

2) Molecular weight was calculated from hydroxyl number (internal method, based on standard ASTM D4274-16).

Rokolub® Polyalkylene Glycol Base Stocks

Water-insoluble PAG – application properties ¹⁾

Product name	Tendency to foam PN-ISO 6247 ²	Foaming Characteristic PN-ISO 6247 ² I sequence 24°C		Foaming Characteristic PN-ISO 6247 ² II sequence 93.5°C		Air Release ASTM D 3427 ³ [min]	Cu Corrosion ASTM D2619 ⁴ Copper strip	Extreme Pressure (EP) ASTM D2783-03		Anti-Wear (AW) ASTM D4172-94 Scar diameter [mm]
		5 min aeration [mL]	10 min foam stability [mL]	5 min aeration [mL]	10 min foam stability [mL]			Last non- seizure load [N]	Weld point [N]	
Rokolub® P-B-10	No	0	0	0	0	<0.5	2b	313	981	0.60
Rokolub® P-B-20	No	20	0	0	0	<0.5	1a	392	981	0.50
Rokolub® P-B-32	No	40	0	10	0	<0.5	2a	490	981	0.64
Rokolub® P-B-32B	No	40	0	0	0	<0.5	2e	490	1236	0.61
Rokolub® P-B-46	No	10	0	0	0	<0.5	2a	490	981	0.56
Rokolub® P-B-50	No	50	0	0	0	2	2c	490	1236	0.53
Rokolub® P-B-68	No	10	0	0	0	<0.5	2a	490	981	0.56
Rokolub® P-B-80	No	20	0	0	0	<0.5	4a	490	981	0.59
Rokolub® P-B-100	No	30	0	0	0	<0.5	2b	490	981	0.48
Rokolub® P-B-120	No	0	0	0	0	<0.5	1b	490	981	0.50
Rokolub® P-B-150	No	0	0	0	0	<0.5	1b	490	981	0.54
Rokolub® P-B-220	No	0	0	0	0	1	2e	618	1236	0.63
Rokolub® P-B-320	No	0	0	0	0	2	2a	618	1236	0.52
Rokolub® PO-D-20	No	0	0	0	0	<0.5	1b	392	981	0.76
Rokolub® PO-D-460	No	0	0	0	0	3	4a	618	1236	0.58
Rokolub® PO-D-700	No	0	0	0	0	3	2a	618	1236	0.51
Rokolub® PO-D-1000B	No	0	0	0	0	2	2c	784	1236	0.57
Rokolub® PO-D-10000	No	0	0	0	0	24	4a	784	1569	0.58
Rokolub® 68	No	0	0	0	0	<0.5	3b	490	1236	0.49
Rokolub® 150	No	0	0	0	0	<0.5	2b	618	1236	0.59
Rokolub® 220 VI	Yes	810	440	170	0	2	2c	618	1236	0.58
Rokolub® 320K	Yes	640	200	430	0	6	3a	784	1569	0.58
Rokolub® 460	Yes	600	150	400	0	6	2a	784	1236	0.58
Rokolub® DE4010	Yes	450	220	200	0	3	3a	618	1236	0.48
Rokolub® DE4020	Yes	590	430	200	20	8	4a	784	1569	0.54
Rokolub® B-10M	No	20	0	0	0	<0.5	2e	490	1236	0.57

Table 5. Water-insoluble Rokolub® properties – PO homopolymers and EO/PO random copolymers

Notes:

1) Table content reflects typical properties, and shall not be taken as specification.

2) Foaming Characteristic according to standard PN-ISO 6247, foam after 5 minutes of aeration, foam stability after 10 minutes after end of aeration.

3) Air Release according to ASTM D3427, the temperature of measurement depends on the kinematic viscosity at 40°C. Oil viscosity from 9 to 90cSt - 50°C; above 90cSt - 75°C.

4) Copper corrosiveness according to standard ASTM D130. 1a – 1b – slight tarnish; 2a – 2e – moderate tarnish, 3a – 3b – dark tarnish, 4a – 4c – corrosion.

Rokolub® Polyalkylene Glycol Base Stocks

Partially water-soluble PAG - physical and chemical properties¹⁾

Product name	ISO Viscosity Grade	Molecular Weight, Mw [g/mol] ²⁾	Kinematic Viscosity at 40°C [cSt] ASTM D445	Kinematic Viscosity at 100°C [cSt] ASTM D445	Viscosity Index ASTM D2270	Flash point [°C] ASTM D92	Cloud Point 1% aqua [°C] EN1890:2006 met.A	Pour Point [°C] ASTM D97	Density in 20°C [g/cm³] DIN 51757
Rokolub® 32	32	450	33	5.0	62	>230	82	<(-40)	1.01
Rokolub® 100	100	500	95	11	100	>230	n/o*	<(-31)	1.07
Rokolub® 220	220	2000	225	22	118	>260	49	<(-20)	1.04
Rokolub® 320 F	220+	2500	270	47	235	>200	n/o*	<(-20)	1.08
Rokolub® 680	680	5000	600	104	268	>250	n/o*	<(-7)	1.09

Table 6. Partially water-soluble Rokolub® properties – EO/PO random copolymers

Notes:

1) Table content reflects typical properties, and shall not be taken as specification.

2) Molecular weight was calculated from hydroxyl number (internal method, based on standard ASTM D4274-16).

* n/o - not observed (according to standard determined from 10°C to 90°C)

Partially water-soluble PAG – water solubility

Product name	5% aqua solution	10% aqua solution	15% aqua solution	20% aqua solution	25% aqua solution	30% aqua solution	35% aqua solution	40% aqua solution	45% aqua solution
Rokolub® 32	+	+	+	+	+	+	+	●	●
Rokolub® 100	+	●	●	●	●	●	●	●	●
Rokolub® 220	●	●	●	●	●	●	●	●	●
Rokolub® 320 F	+	+	+	+	+	+	●	●	●
Rokolub® 680	+	+	+	+	+	●	●	●	●

Table 7. Partially water-soluble Rokolub® water solubility – EO/PO random copolymer

Note: Water solubility at room temperature

+ clear solution

● turbid solution

Partially water-soluble PAG - application properties¹⁾

Product name	Tendency to foam PN-ISO 6247 ²	Foaming Characteristic PN-ISO 6247 ² I sequence 24°C		Foaming Characteristic PN-ISO 6247 ² II sequence 93.5°C		Air Release ASTM D 3427-86 ³ [min]	Cu Corrosion ASTM D2619-09 ⁴ Copper strip	Extreme Pressure (EP) ASTM D2783-03		Anti-wear (AW) ASTM D4172-94 Scar diameter [mm]
		5 min aeration [mL]	10 min foam stability [mL]	5 min aeration [mL]	10 min foam stability [mL]			Last non- seizure load [N]	Weld point [N]	
Rokolub® 32	No	0	0	0	0	<0.5	2b	490	981	0.59
Rokolub® 100	Yes	700	460	470	0	6	2a	490	981	0.50
Rokolub® 220	Yes	550	30	0	0	1	2b	618	1236	0.73
Rokolub® 320 F	Yes	560	280	770	20	21	2c	981	1569	0.54
Rokolub® 680	Yes	200	60	570	300	>30	2a	981	1569	0.53

Table 8. Partially water-soluble Rokolub® properties – EO/PO random copolymer

Notes:

1) Table content reflects typical properties, and shall not be taken as specification.

2) Foaming Characteristic according to standard PN-ISO 6247, foam after 5 minutes of aeration, foam stability after 10 minutes after end of aeration.

3) Air Release according to standard ASTM D3427. The temperature of measurement depends on the kinematic viscosity of the oil at 40°C.

Oil viscosity from 9 to 90cSt - 50°C; above 90cSt - 75°C.

4) Copper corrosiveness according to standard ASTM D2619. 1a – 1b – slight tarnish; 2a – 2e – moderate tarnish, 3a – 3b – dark tarnish, 4a – 4c – corrosion

Partially water-soluble PAG – applications

Product name	ISO Viscosity Grade	Industrial Gear Oils	Compressor Oils	Hydraulic Fluids	Textile Lubricants	Metalworking Fluids	Mill & Calender	Non-Ferrous Metal Processing	NSF HX-1
Rokolub® 32	32		x	x		x			
Rokolub® 100	100		x	x	x	x			
Rokolub® 220	220	x	x	x	x	x			
Rokolub® 320 F	220+	x			x	x			x
Rokolub® 680	680	x			x	x		x	x

Table 9. Partially water-soluble Rokolub® applications – EO/PO random copolymer

Note: Typical applications do not exclude other uses of products.

Water-soluble PAG – applications

Product name	ISO Viscosity Grade	Industrial Gear Oils	Compressor Oils	Hydraulic Fluids	Textile Lubricants	Metalworking Fluids	Mill & Calender	Non-Ferrous Metal Processing	NSF HX-1
Rokolub® 50-B-10	10		x	x		x			
Rokolub® 50-B-20	22		x	x		x			
Rokolub® 50-B-32	32		x	x		x			
Rokolub® 50-B-46	46		x	x		x		x	
Rokolub® 50-B-68B	68		x	x		x		x	
Rokolub® 50-B-100	100		x	x	x	x	x	x	x
Rokolub® 50-B-120	100+		x	x	x	x	x	x	
Rokolub® 50-B-130	100+		x	x	x	x	x	x	
Rokolub® 50-B-150	150	x	x	x	x	x	x	x	x
Rokolub® 50-B-220	220	x			x	x		x	
Rokolub® 50-B-330	320	x			x	x		x	
Rokolub 50-B-400	320+	x			x	x		x	
Rokolub® 50-B-460	460	x			x	x		x	
Rokolub® 50-B-680	680	x			x	x		x	
Rokolub® 50-B-1000	1000	x			x	x		x	
Rokolub® 60-D-68	68		x	x		x			
Rokolub® 60-D-150	150	x	x	x	x	x	x		x
Rokolub® 60-D-220	220	x	x	x	x	x	x	x	x
Rokolub® 60-D-320	320	x			x	x		x	
Rokolub® 60-D-460	460	x			x	x		x	x
Rokolub® 60-D-1000	1000	x			x	x			x
Rokolub® WS 460	460	x			x	x			
Rokolub® WS 680	680	x			x	x			
Rokolub® PE400	46			x		x			

Table 10. Water-soluble Rokolub® applications – EO/PO random copolymers and EO homopolymers.

Note: Typical applications do not exclude other uses of products.

Water-insoluble PAG – applications

Product name	ISO Viscosity Grade	Industrial Gear Oils	Compressor Oils	Hydraulic Fluids	Textile Lubricants	Metalworking Fluids	Mill & Calender	Non-Ferrous Metal Processing	NSF HX-1
Rokolub® P-B-10	10		x	x					
Rokolub® P-B-20	22		x	x					
Rokolub® P-B-32	32		x	x					
Rokolub® P-B-32B	32		x	x					
Rokolub® P-B-46	46		x	x					
Rokolub® P-B-50	46		x	x					x
Rokolub® P-B-68	68		x	x					
Rokolub® P-B-80	68+		x	x					
Rokolub® P-B-100	100		x	x	x				x
Rokolub® P-B-120	100+		x	x	x				x
Rokolub® P-B-150	150	x	x	x	x				x
Rokolub® P-B-220	220	x	x	x	x				x
Rokolub® P-B-320	320	x			x				x
Rokolub® PO-D-20	22		x	x					
Rokolub® PO-D-460	460	x			x				
Rokolub® PO-D-700	680+	x			x				
Rokolub® PO-D-1000B	1000	x			x				
Rokolub® PO-D-10000	10000	x							
Rokolub® 68	68		x	x					
Rokolub® 150	150	x	x	x	x		x		
Rokolub® 220 VI	220+	x	x	x	x				
Rokolub® 320K	320+	x			x				
Rokolub® 460	460+	x			x				
Rokolub® DE4010	320	x			x				
Rokolub® DE4020	320+	x			x				
Rokolub® B-10M	10		x	x					

Table 11. Water-insoluble Rokolub® applications – PO homopolymers and EO/PO random copolymers.

Note: Typical applications do not exclude other uses of products.

Mineral oil soluble PAG – physical and chemical properties

Product name	ISO Viscosity Grade	Kinematic viscosity at 40°C [mm²/s] ASTM D445	Kinematic viscosity at 100°C [mm²/s] ASTM D445	Viscosity Index ASTM D2270	Pour Point [°C] ASTM D97	Flash Point (COC) [°C] ASTM D92	Aniline Point [°C] ASTM D611	Anti-wear – scar diameter [mm] ASTM D4172	Air release [min] ASTM D3427
Rokolub® MOS 22	22	20	4.6	148	<(-30)	218	<25	0.56	<0.5
Rokolub® MOS 32	32	31	6.5	171	<(-38)	250	<25	0.50	<0.5
Rokolub® MOS 46	46	46	9.2	185	<(-30)	242	<25	0.55	<0.5
Rokolub® MOS 68	68	66	12	182	<(-30)	246	<25	0.49	<0.5
Rokolub® MOS 100	100	100	17	183	<(-30)	250	<25	0.52	<0.5
Rokolub® MOS 220	220	210	30	187	<(-30)	226	<25	0.49	<0.5
Rokolub® MOS 460	460	433	51	181	(-35)	240	<25	0.54	<0.5
Rokolub® MOS 680	680	637	73	194	(-28)	241	<25	0.52	<0.5

Table 12. Mineral oil soluble PAGs - Rokolub® MOS properties

Mineral oil soluble PAG – mineral oil solubility

Product name	SN150 VG32 Base oil – group I				SN500 VG100 Base oil – group I				SN650 VG100-150 Base oil – group I				Chevron 600R VG100 Base oil – group II				HC60 VG10-22 Base oil – group III			
	-10°C	4°C	25°C	50°C	-10°C	4°C	25°C	50°C	-10°C	4°C	25°C	50°C	-10°C	4°C	25°C	50°C	-10°C	4°C	25°C	50°C
Rokolub® MOS 22	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Rokolub® MOS 32	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Rokolub® MOS 46	●	+	+	+	●	+	+	+	●	●	+	+	●	+	+	+	●	+	+	+
Rokolub® MOS 68	●	+	+	+	●	+	+	+	●	●	+	+	●	+	+	+	●	+	+	+
Rokolub® MOS 100	●	+	+	+	●	+	+	+	●	●	+	+	●	+	+	+	●	+	+	+
Rokolub® MOS 220	●	+	+	+	●	+	+	+	●	●	+	+	●	+	+	+	●	+	+	+
Rokolub® MOS 460	●	+	+	+	●	+	+	+	●	●	+	+	●	+	+	+	●	+	+	+
Rokolub® MOS 680	●	+	+	+	●	+	+	+	●	●	+	+	●	+	+	+	●	+	+	+

+ clear solution

● turbid solution

*all results after 7 days

Customized products and new product developments

With 40 years of polyether polyol manufacturing experience, we are able to offer customized solutions to meet a variety of market demands. Thanks to our PAG production's flexibility, we can synthesize products with wide viscosity range, different EO/PO rates, and with use of various initiators. PCC Rokita's extensive resources allow us to obtain products which meet your exact physico-chemical requirements e.g.: viscosity, molecular weight, pour point, cloud point, and tailored solubility in different solutions.

Additives

Antioxidants (AoX) added to Rokolub® base stock series are applied for storage reasons. Most of antioxidants used are phenolic derivatives.

Packaging

Tank wagons or tanker trucks made of stainless steel, plastic containers with a capacity of 1 m³, steel or plastic drums with a capacity of 200 liter, and other packaging earlier agreed with the customer.

Storage condition

Store in sealed containers, in cool, dry places. Maximum storage temperature +40°C.

Shelf life

Maximum shelf life is 12 months (1 year) when stored under proper conditions.

Transport

Limitations resulting from ADR, RID, IMDG, and IATA regulations do not apply.

Other

Rokolub® series is polymer pursuant to Regulation (EC) No 1907/2006 REACH (Article 3(5)). Polymers are exempted from the provisions on registration of Title II of REACH (Article 2(9)). All monomers and another substances used to production of above mentioned polyol have been/ will be registered by our suppliers.





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September 2025

The information in the catalogue is believed to be accurate and compiled to the best of our knowledge; however, it should be considered as introductory only. Detailed information about our products is available in TDS and MSDS.

The suggestions for product applications are based on our best knowledge.

The responsibility for the use of products in conformity or otherwise with the suggested application, and for determining product suitability for the user's own purposes rests with the user.

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