



The Chemical Company

Luwax[®] Poligen[®]

Waxes and wax emulsions
for industrial applications



Industries and Applications

Ethylene Homopolymer Wax

		Melting point [°C]	Melt viscosity (120°C) [mm ² /s]	Molar mass [g/mol]	Density (23°C) [g/cm ³]
Polish industry Printing ink industry Construction industry Processing of plastics Paper and packaging industry Paints and varnishes PVC	Luwx A	101 – 109	950 – 1550	approx. 7000	0.910 – 0.930
	Luwx AH 3	110 – 118	135 – 240	approx. 3500	0.940 – 0.955
	Luwx AH 6	108 – 116	950 – 1550	approx. 7000	0.930 – 0.950
	Luwx AL 3	102 – 108	135 – 240	approx. 3500	0.910 – 0.925
	Luwx AL 61	107 – 113	950 – 1550	approx. 7000	0.920 – 0.940
	Luwx AM 3	104 – 108	150 – 220	approx. 3500	0.910 – 0.925
	Luwx AM 6	104 – 109	1000 – 1400	approx. 7000	0.910 – 0.930

Micronized Polyethylene Wax

		Melting point [°C]	Density (23°C) [g/cm ³]	Average particle size (volume)/median, Galai-CIS 1 [µm]
Surface modification – Printing ink industry – Paints and varnishes Processing of plastics	Luwx AF 29	110 – 118	0.940 – 0.955	approx. 6
	Luwx AF 30	110 – 118	0.940 – 0.955	approx. 6.5
	Luwx AF 31	110 – 118	0.940 – 0.955	approx. 7
	Luwx AF 32	110 – 118	0.940 – 0.955	approx. 7.5
Personal hygiene – Dental care	Luwx PE 10 M	110 – 118	0.935 – 0.950	approx. 7

Oxidized Polyethylene Wax

		Melting point [°C]	Acid number [mg KOH/g]	Melt viscosity (120°C) [mm ² /s]	Molar mass [g/mol]
Polish industry – floor polishes – shoe polishes Coating in general – Anionic, cationic, nonionic emulsions – Textile industry – Citrus fruit coating – Paper coating Processing of plastics PVC	Luwx OA	94 – 104	19 – 25	250 – 500	approx. 2700
	Luwx OA 2	103 – 112	19 – 25	250 – 400	approx. 2800
	Luwx OA 3 cont. ~ 8% water	126 – 133	20 – 24	approx. 4500 (140°C)	approx. 11000
	Luwx OA 5	102 – 110	15 – 19	280 – 420	approx. 5400
	Luwx ES 9696 cont. ~ 8% water	126 – 133	17.5 – 19	approx. 6500 (140°C)	approx. 11000



Montanic Acid Wax/Montanic Ester Wax

		Dropping point [°C]	Acid number [mg KOH/g]	Saponification number [mg KOH/g]	Melt viscosity (120°C) [mm ² /s]
Polish industry – floor polishes – car polishes	Luwx S	80 – 87	135 – 160	155 – 180	approx. 12
	Luwx LS	82 – 88	120 – 130	145 – 165	approx. 12
Dry bright emulsions – shoe and leather polishes – furniture polishes	Luwx E	80 – 87	15 – 20	138 – 158	approx. 16
	Luwx LG	77 – 83	25 – 35	135 – 160	approx. 13
Processing of plastics PVC	Luwx LGE cont. emulsifier	80 – 85	20 – 30	127 – 147	approx. 15
	Luwx OP part. saponified	99 – 105	7 – 14	110 – 130	200 – 400

Ethylene Copolymer Wax

		VAc-content [wt%]	Melting point [°C]	Melt viscosity (120°C) [mm ² /s]
Paints and varnishes Automotive finish coatings (two coat metallic finishes)	Luwx EVA 1	approx. 10.5	84 – 92	1400 – 1950
	Luwx EVA 3	approx. 13 – 15	93 – 98	1200 – 1500
Polish industry – floor polishes Coating in general Processing of plastics PVC		Comonomer- content [wt%]		
	Luwx ES 91014	approx. 8	100 – 108	1200 – 1600
	Luwx ES 91015	approx. 19	85 – 95	MFR (160°C/325 g) 8 – 12 g/10 min
	Luwx EAS 5	approx. 25 – 29	75 – 85	MFR (160°C/325 g) 8 – 12 g/10 min

Polyether Wax

		Chemical nature	Melting point [°C]	Molar mass [g/mol]	Melt viscosity (100°C) [mm ² /s]
Polish industry – floor polishes – leather finish – furniture polishes – stone floor polishes	Luwx V	Polyvinyl ether	47 – 51	approx. 28000	approx. 600



Wax Emulsions

		Wax basis	Solid Content [%]	pH	Viscosity (ISO 2431 cup 4 mm) [s]	Emulsifier system
Polish industry – floor polishes – car polishes – shoe polishes – furniture polishes Textile industry Paper and packaging industry Paints and varnishes Printing ink industry Coatings in general (e.g. metal, glass) Hot melt Anti-Fingerprint	Poligen WE 1	Oxidized Polyethylene	34 – 36	9 – 10	20 – 36	nonionic
	Poligen WE 3	Ethylene copolymer	24 – 26	8.5 – 9.5	< 85*	–
	Poligen WE 4	Ethylene copolymer	20 – 22	8.5 – 9.5	25 – 170	–
	Poligen WE 6	Oxidized Polyethylene	33 – 36	7.5 – 9.5	20 – 60	nonionic
	Poligen WE 7	Oxidized Polyethylene	38 – 41	9.5 – 10.5	20 – 100*	nonionic
	Poligen WE 8 BW	Oxidized Polyethylene	34 – 36	8.5 – 10	15 – 100	nonionic
	Poligen WE 9	Oxidized Polyethylene	34 – 36	6.5 – 8	20 – 40**	nonionic
	Poligen MW 1	Montanic Ester Wax	38 – 42	4 – 6	approx. 25	nonionic
	Poligen ES 91009	Ethylene copolymer	20 – 22	8 – 9.5	15 – 150	–
	Poligen ES 91012	Ethylene copolymer	24 – 26	8.5 – 9.5	< 85*	–
	Poligen ES 91016	Ethylene copolymer	22 – 26	9 – 10.5	12 – 100	nonionic
	Poligen ES 91018	Ethylene copolymer	20 – 24	8.5 – 9.5	12 – 100	–
	Poligen ES 91020	Oxidized Polyethylene	approx. 37	approx. 7	12 – 100*	nonionic
	Poligen ES 91021	Oxidized Polyethylene	approx. 40	approx. 7	30 – 100*	nonionic
	Poligen ES 91022	Ethylene copolymer	approx. 8	9 – 10	12 – 100	–

* ISO 2431 cup 5 mm

** ISO 2431 cup 3 mm



Waxes and wax emulsions for industrial applications

➤ Free from catalyst residues

➤ Transparent

➤ High slip resistance

➤ Self emulsifying

➤ Micronized

➤ Surfactant-free

Luwax ■ Poligen



Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

Safety

We know of no ill effects that could have resulted from using our products for the purpose for which they are intended and from processing them in accordance with current practice. According to the experience we have gained up to now and other information at our disposal, our products do not exert any harmful effects on health, provided that they are used properly, due attention is given to the precautions necessary for handling chemicals, and the information and advice given in our safety data sheet are observed.

Labelling

Details about the classification and labelling of our products and further advice on safe handling are contained in the current safety data sheets.

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