

System Cleaner

Corrosion Protection

Special Products

Solvents

RENOCLEAN

Product name	SYNTHETIC			OIL-BASED							Special Products								
	GROTANOL FF 1 N	RENOCLEAN FXM 4005	ACTICIDE OX/ MBS/WB 200	RENOCLEAN VR 3222	RENOCLEAN MTO 3002	ANTICORIT SKR 42	ANTICORIT SKR 3001	RENOCLEAN VR 2729 K	RENOCLEAN MTE 3001	ANTICORIT DFO/DFW XXXX	ANTICORIT RPC/MPC 5000	RENOCLEAN SPEZIAL 2000	RENOCLEAN GXA 3004/GXA 4014	RENOCLEAN GSO 3001	RENOCLEAN GTM 3001	RENOCLEAN GXM 3001	RENOCLEAN AKTIV DA		
Function	System cleaner complete product for KSS supply systems, registered in most European countries!	System cleaner biocide and fungicide free, for KSS supply systems, basic system without biocide / fungicide	Biocides and fungicides for system cleaning, in combination with RENOCLEAN FXM 4005 for targeted application	Synthetic, mineral oil-free corrosion protection	Neutral cleaner and synthetic corrosion protection "All-in-One" for spray, pressure flood, high-pressure cleaning and deburring	Synthetic pressure water test and corrosion protection concentrate	Synthetic, mineral oil-free corrosion protection	Synthetic temporary corrosion protection, mineral oil-free, alkaline	Emulsion cleaner, oil containing water miscible corrosion protection concentrate	Solvent-based, water displacing corrosion protection	Corrosion protection concentrates for solvent plants	Emulsifying universal cleaner for immersion, ultrasonic and manual commercial vehicle, tarpaulin, hall and workshop cleaning	Emulsifying universal cleaner for floors, halls and vehicle fleet	Cleaner for transport containers (KLT) for spray, immersion and manual application	Drying accelerator for spray and immersion application	Defoamer, foam regulating additive especially for cleaning solutions	Demulsifier for separation of emulsified oil		
Comments	Contact time 6 – 24 h	Contact time 8 – 24 h. Separate dosage of bactericide. Permanent use to KSS without bactericide possible.	See "Service additives for cooling lubricants" under "Cooling lubricants – water-miscible".	Free of nitrite and borate, suitable for vibratory finishing. For immersion, flood, pressure flood and spray application.	Very low residue formation, very good temporary corrosion protection, synthetic, salt-free, nitrite-free	Stable against salt and alkali carryover, for immersion and filling application, nitrite-free	Nitrite-free, protects against corrosion in the vapour phase, suitable for vibratory grinding, for immersion, pressure flood, and spray applications	Free of nitrite and borate, protects against corrosion in the vapour phase, suitable for vibratory grinding, for immersion, pressure flood, and spray applications	Emulsion cleaner and corrosion protection for immersion, flush and spray application. Free of barium and boron compounds, contains no monoethanolamine.	Dewatering Fluids. Forms a thin barium-free oily/ water corrosion protection film, dip and flood application, spraying conditionally possible.	Oily film. Barium-free concentrates, applicable in many, preferably Renoclean solvents.	For all manual cleaning, for immersion, suitable for steam-jet and floor cleaning equipment	For all manual and machine-based applications, especially suitable for floor cleaning equipment. Odourless (GXA 4014 with lime fragrance).	For the removal of oil, grease, abrasion and transport dust, designed for container cleaning systems	Antistatic effect on plastic surfaces, dosing into rinse for faster drying of plastic boxes	Immediate, long-lasting defoaming and deaerating effect	Demulsifier with defoaming effect, equipment to remove demulsified oil is necessary (oil separator etc.)		
Application S – Spray/H.-pressure D – Immersion/Ultrasonic T – Spray + Immersion	S D T Others	T	T	T	S (T)	D Manual, filling	D (T)	T	T	D	Analogous to solvent	T Manual, High pressure device	T Manual, floor cleaning/Steam-jet device	T Manual	T	T Manual	T Manual		
Foaming tendency	none	none	none	low	lowest	low	strong	low	low to moderate			strong	moderate	low	low	none	low		
Materials Fe – steel, iron, cast iron and stainless steel	Fe Al Zn Cu Ms Others			X X X X X X Others	X X ¹ X X X X Others	X	X X X X ¹ X ¹ Mg	X	X X X ¹ X X X Others	X X X X X X Others	X X ¹ X X X X Others	X X ¹ X X X X Others	X X X X X X Others	X X X X X X Others	X X X X X X Others	X X X X X X Others	X X X X X X Others	X X X X X X Others	
¹ to check first.	Corresponding cooling lubricant			All materials ¹	Mg ¹		Mg	All materials ¹	All materials ¹	All materials ¹		Mg, Paints ¹ , Plastics	Plastics	All materials ¹	–	–			
Corrosion protection, Chips/filter test 0/0	at x % in y ° dH	–	–	temporary, '3.5 %/10 ° dH	temporary, '2 % / 10 ° dH	temporary, '1.5 %/20 ° dH	temporary, '2 %/20 ° dH	temporary, '1.5 %/VE	temporary, '3 %/10 °vdH	very good	very good	–	–	–	–	–	–		
pH (2 %), if applicable		ca. 9 ± 1 (1%)	10.0 ± 0.6	8.0 ± 0.4 (3.5%)	9.4 ± 0.5	9.8 ± 1	9.8 ± 0.4	10.8 ± 0.5 (3%)	8.8 ± 0.5	–	–	10.9 ± 0.4 (3%)	9.1 ± 0.6 (100%)	11.7 ± 0.5 (1%)	8.5 ± 0.5 (100%)	8.7 ± 1	8.8 ± 1.2 (100%)	9.3 ± 0.7 (100%)	
Concentration standard (range)	in %	2 % (1% – 3%)	1.5 % (1% – 2%)	–	2 (0.5 – 5)	3 (2 – 5)	3 (1 – 5)	3 (0.5 – 5)	2 (0.5 – 5)	4 (3 – 20)	1	typical >3 %	5 (1 – 20)	3 (1 – 20)	2 (1 – 10)	0.3 (0.2 – 1.0)	0.05 (0.01 – 0.25)	0.2 (0.05 - 1.0)	
Temperature standard (range)	in °C	Corresponding cooling lubricant			60 (20 – 80)	60 (20 – 80)	20 (10 – 50)	60 (10 – 80)	60 (20 – 80)	20 (20 – 60)	Ambient temperature	According to solvent	35 (20 – 80)	20 (20 – 90)	50 (20 – 80)	50 (20 – 80)	–	–	
Spray pressure	in bar up to ca.	Corresponding cooling lubricant			100	500 (at 50 °C)	10	1	300	5	1	–	–	–	5	5	–	–	
Demulsifying, Emulsifying		E	E	–	–	D	–	–	E	–	–	E	E	–	–	–	D		
Density at 15 °C	in kg/m³	1010 ± 15	1005 ± 15	–	1079 ± 15	1078 ± 20	1068 ± 15	1033 ± 15	1035 ± 15	995 ± 20	–	–	1045 ± 20	1047 ± 15	1036 ± 15	1004 ± 15	1017 ± 15	998 ± 15	987 ± 10

Product name	RENOCLEAN MTS 7001	RENOCLEAN MVS 8015 / MVS 8019	RENOCLEAN MVS 9004	RENOCLEAN MVS 9014	RENOCLEAN MVS 8201	RENOCLEAN MVS 8202	RENOCLEAN MVS 8010	RENOCLEAN MVS 7008	RENOCLEAN MVS 6201		
	Function	Cleaner based on modified alcohols	Hydrocarbon cleaner based on isoparaffin, virtually aromatics-free	VOC-compliant, low-aromatic hydrocarbon cleaner	VOC- and low-aromatic hydrocarbon cleaner with corrosion protection	Low-aromatic hydrocarbon cleaner, environmentally friendly, demulsifying	Sustainable hydrocarbon cleaner, isoparaffin-based, suitable for multi-metals	Hydrocarbon cleaner based on isoparaffin, virtually aromatics-free	Hydrocarbon cleaner, virtually aromatics-free	Rapid metal cleaner, product also available as RENOCLEAN MVS SPRAY	
Comments	Distillable. Especially designed for closed cleaning systems!	Very narrow resp. narrow boiling cut, fast drying, distillable. Especially designed for closed cleaning systems!	Universal application, slowly evaporating. Simple application, e.g. for the removal of automotive wax preservative.	VOC-compliant. Universal application, good corrosion protection due to very thin oil film. For solvent plants without distillation.	Universal application in industry and trade, applicable with steam jet, good corrosion protection properties. Free of corrosive and caustic substances.	Completely bio-based on a mixture of palm oil, rapeseed oil, sunflower oil or used cooking oil	Gentle cleaning, for precision mechanics and electronic parts cleaning, non-irritating to skin. Easy application, for solvent systems without permanent distillation.	Fine cleaning, for solvent systems without permanent distillation.	Strong cleaning efficiency in removing residues of oil, grease, adhesives. Based on an especially selected combination of solvents.		
Application S – Spray/H.-pressure D – Immersion/Ultrasonic T – Spray + Immersion	S D T Others	T Manual	T Manual	T Manual	T Manual, Steam-jet device	T Manual	T Manual	T Manual	T Manual		
Foaming tendency	none	none	none	none	none	none	none	none	none		
Materials Fe – steel, iron, cast iron and stainless steel	Fe Al Zn Cu Ms Others	X X X X X Others	X X X X X Others	X X X X X Others	X X X X X Others	X X X X X Others	X X X X X Others	X X X X X Others	X X X X X Others		
¹ to check first.	Corresponding cooling lubricant	All materials, Plastics ¹	All materials, Plastics ¹	All materials, Plastics ¹	All materials, Plastics ¹	All materials, Plastics ¹	All materials, Plastics ¹	All materials, Plastics ¹	All materials, Plastics ¹		
Evaporation figure (Ether = 1)	ca.	125	93	115	900	900	120	130	123	200	–
Flash point	in °C	≥ 61	≥ 56	≥ 62	≥ 86	≥ 86	≥ 61	≥ 61	≥ 61	≥ 61	≥ 12
Boiling range	in °C	165 - 175	179 - 197	184 - 206	217 - 255	217 - 255	180 - 330	180 - 218	180 - 220	160 – 245	–
Concentration standard (range)	in %	100	100	100	100	100	100	100	100	100	100
Spray pressure	in bar up to ca.	System-dependent					–	System-dependent			–
Demulsifying, Emulsifying		–	–	–	–	D	–	–	–	–	
Density at 15 °C	in kg/m³	880 ± 10	760 ± 10	763 ± 10	815 ± 20	814 ± 20	795 ± 15	752 ± 15	766 ± 10	790 ± 25	760 ± 10

Perfect Cleaning – Cleaner for Metalworking



MOVING YOUR WORLD

Neutral Cleaner

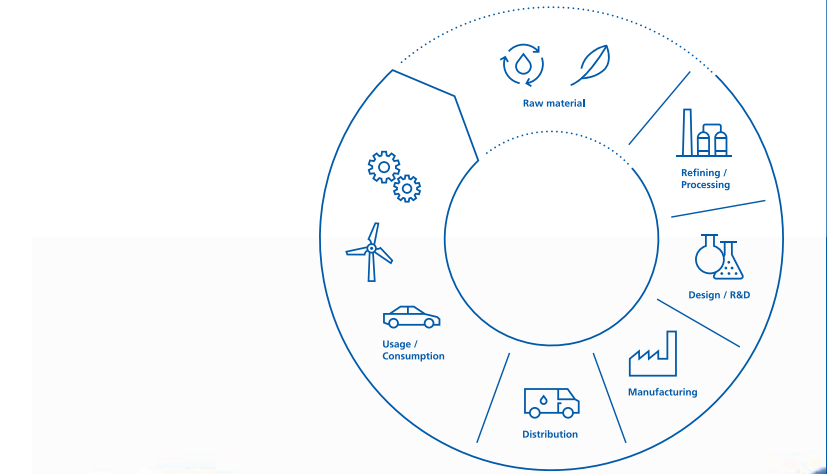
1-Component Products

Acid Cleaner

Builder Components

Surfactant Components

Product name	RENOCLEAN MSO 3011	RENOCLEAN MTO 3002	RENOCLEAN MTO 3001	RENOCLEAN MTO 3003	RENOCLEAN MSO 3201	RENOCLEAN MSO 3004	RENOCLEAN VR 1021 CXV	RENOCLEAN C 20 K 1427	RENOCLEAN MTA 3003	RENOCLEAN MDA 4201	RENOCLEAN WSA 4002	RENOCLEAN FDC 4001	RENOCLEAN MDA 4002	RENOCLEAN FSA 4017	RENOCLEAN FTM 1001	RENOCLEAN FSO 2010	RENOCLEAN MTA 2001	RENOCLEAN MTA 4001	RENOCLEAN FTA 4002	RENOCLEAN ENTFETTER 39	RENOCLEAN FTA 4001	RENOCLEAN VR 3222/VR 2729 K	RENOCLEAN TENSID 161	RENOCLEAN MTT 2003	RENOCLEAN VR 1500	
Function	Neutral cleaner for spray and high-pressure cleaning, high-pressure deburring	Neutral cleaner and corrosion protection "All-in-One" for spray, pressure flood, high pressure cleaning and deburring	Multi-metal capable neutral cleaner for spray and immersion applications	Multi-metal capable neutral cleaner for spray and immersion applications	Multi-metal capable neutral cleaner, suitable for high pressure	Neutral cleaner for spray and high-pressure cleaning up to 500 bar	Spray cleaner for spray, pressure flood and high-pressure cleaning up to approx. 300 bar	Neutral cleaner with very good corrosion protection for ferrous metals, spray application	Multi-metal capable spray and immersion cleaner, suitable for ultrasonic cleaning	Multi-metal capable emulsifying cleaner for immersion, ultrasonic and manual application	Cleaner for spray, immersion, ultrasonic and manual application	Cleaner for immersion, ultrasonic and manual application in medical technology.	Immersion and ultrasonic cleaner, sprayable	Alkaline spray cleaner for ferrous metals	Derusting, decalcification phosphoric acid for immersion, ultrasonic and manual application	Neutral deruster for spray, immersion and ultrasonic application	Builder, neutral, for immersion, pressure flood, floor and spray application	Builder, medium alkaline, for immersion, pressure flood, floor and spray application.	Builder, highly alkaline, for immersion, pressure flood, floor and spray application	Builder, highly alkaline, silicate, for immersion, pressure flooding, ultrasonic and spray cleaning, electrolyte degreasing, dephosphating	Builder, highly alkaline, for immersion, pressure flood, floor and spray application	Synthetic builders with corrosion protection, recyclable, for immersion, pressure flood, floor and spray application	Cleaning booster for immersion, ultrasonic and spray cleaning	Cleaning booster for immersion, pressure flood, ultrasonic and spray cleaning	Cleaning booster for spray cleaning, neutral cleaner	
Comments	Highly demulsifying, almost foam-free above 25°C, salt-free	Residue formation very low, very good temporary, corrosion protection, salt-free	Suitable for ultrasonic, universally applicable, e.g. before heat treatment, salt-free	Developed especially for the removal of micro-quantity lubricants (e.g.: ECOCUT MIKRO PLUS 20), salt-free	Developed for cleaning steel, stainless steel, cast iron, non-ferrous metal and aluminum surfaces	Very low residue formation, suitable for micro-filtration. Virtually foam-free from 10°C, salt-free	High-pressure cleaning (200 bar, 300 bar for short periods). Nearly foam-free from 30°C	Low residue formation, usable before heat treatment, salt-free	Universally applicable, e.g. for non-cutting formed parts or for engine reconditioning	Alkaline cleaner containing silicate with very good wetting capacity, supports clean, stain-free drying. Manual and floor cleaning from 20°C.	For heavily soiled parts and aggregates (e.g. railroad, engine and chassis parts)	Supports stain-free drying. Can be combined with RENOCLEAN MDT 3002. Silicate-free. Non-skin-irritating.	For cleaning of parts, e.g.: with difficult to remove forming lubricants. Sprayable up to approx. 8 bar (depending on the system).	For cleaning of parts, e.g.: with difficult to remove pigment dirt. Sprayable up to approx. 25 bar (depending on system).	Suitable for cleaning calcified and germinated cleaning systems. Integrated consumption indicator	Chloride free, applicable after thermal or ECM deburring	Borate, silicate and surfactant free, microfilterable ²⁾	Borate, silicate and surfactant free, microfilterable ²⁾	Borate, silicate and surfactant free, microfilterable ²⁾	Borate and surfactant free, microfilterable ²⁾	Borate, silicate and surfactant free, microfilterable ²⁾	Free of nitrite, borate, silicate and surfactants, suitable for high-pressure, microfilterable, salt free ²⁾	Microfilterable, strongly dependent on membrane and working parameters!	Microfilterable, strongly dependent on membrane and working parameters! Sprayable ≥ 40°C.	As neutral cleaner free from corrosion protection components	
Application S – Spray/H.-pressure D – Immersion/Ultrasonic T – Spray + Immersion	S	S (T)	T HD-Gerät	T	S	S	S (T)	S	T	T Manual, floor cleaning equipment	S (T) Manual, Steam-jet device	D	D (T)	S (T)	T Manual, High pressure device	T Manual, High pressure device	T	T	T	T	T	T	T	D	T	S
Foaming tendency	lowest	lowest	low	lowest	lowest	lowest	lowest	low	moderate	strong	low	strong	moderate	low	moderate	low	none	none	none	none	none	none	none	moderate to strong	low	very low
Materials Fe – steel, iron, cast iron and stainless steel	Fe Al Zn Cu Ms Others	X X X ¹	X X X ¹	X X X ¹	X X X ¹	X X X ¹	X X ¹	X X ¹	X X X ¹	X X X ¹	X X X ¹	X X X ¹	X X X ¹	X X ¹	X X ¹	X X X ¹	X X ¹	X X ¹	X X ¹	X X X ¹	X X X ¹	X X X ¹	X X X ¹	X X X ¹	X X X ¹	X X X ¹
¹ to check first.	Plastics ¹	Mg ¹	Red brass, Plastics ¹	Plastics ¹	Plastics ¹	Mg ¹	Mg ¹	Mg ¹	Plastics ¹	Plastics ¹	Mg ¹	Titan, Mg ¹	Mg	Mg ¹	Mg, Plastics ¹	Mg, Plastics ¹	Plastics	Plastics, Mg ¹	Mg, Plastics ¹	Mg, Plastics ¹	Mg, Plastics ¹	Plastics	Plastics	All materials ¹	All materials ¹	All materials ¹
Corrosion protection , Chips/filter test 0/0	at x % in y ° dH	temporary, '2 %/DI water	temporary, '2 %/10° dH	temporary, '2 %/DI water	temporary, '2 %/DI water	temporary, '2 %/DI water	temporary, '2 %/10° dH	temporary, '1,5 %/10° dH	temporary, '3 %/10° dH	–	temporary, '2,5 %/20° dH	–	temporary, '2,5 %/20° dH	temporary, '2 %/20° dH	Fe parts must be metallically bright after treatment and immediately protected with corrosion protection from the RENOCLEAN or ANTICORIT range.	–	–	–	–	–	–	temporary, '3,5 %/10° dH	temporary, '3 %/10° dH	Products comply with Regulation (European Community) No. 648/2004 on detergents		
pH (2 %) , if applicable	9.2 ± 0.4 (3.5 %)	9.4 ± 0.5	9.5 ± 0.4	9.5 ± 0.4	9.7 ± 0.3	9.8 ± 0.4	9.8 ± 0.3	10.2 ± 0.4	9.7 ± 0.4 (3 %)	10.7 ± 0.5	12.0 ± 0.5 (2.5 %)	12.1 ± 0.5	12.2 ± 0.3	12.3 ± 0.5	1.5 ± 0.5 (DI water)	5.9 ± 0.5 (5 %)	7.7 ± 0.8	10.0 ± 0.6	12.5 ± 0.5	12.8 ± 0.6	12.9 ± 0.6 (1 %)	8.0 ± 0.4 (3.5 %)	10.8 ± 0.5 (3 %)	9.1 ± 0.6	7.9 ± 1.2 (1 %)	8.5 ± 0.5
Concentration standard (range)	in % 3 (1 – 5)	3 (2 – 5)	2.5 (1 – 7)	3 (2 – 7)	2.5 (1 – 5)	2.5 (1 – 5)	3 (1 – 5)	2 (1 – 5)	3 (2 – 7)	4 (2 – 7)	3 (2 – 7)	5 (2 – 33)	4 (1 – 7)	3 (1 – 7)	10 (5 – 50)	10 (2 – 30)	4 (2 – 8)	4 (2 – 8)	4 (2 – 8)	5 (1 – 20)	5 (2 – 20)	2 (0.5 – 5)	0.4 (0.1 - 1)	1 (0.4 – 5)	1 (0.3 – 5)	
Temperature standard (range)	in °C 50 (20 – 80)	60 (20 – 80)	60 (30 – 80)	60 (30 – 80)	60 (30 – 80)	60 (30 – 80)	65 (30 – 80)	65 (40 – 80)	65 (40 – 80)	65 (20 – 80)	60 (30 – 80)	65 (20 – 80)	65 (40 – 80)	65 (35 – 85)	30 (20 – 60)	50 (20 – 70)	7.8 ± 0.8	65 (20 – 80)	65 (20 – 80)	65 (20 – 80)	65 (20 – 85)	60 (20 – 80)	65 (20 – 80)	65 (20 – 80)	65 (30 – 80)	
Spray pressure	in bar up to 600	500 (at 50°C)	15	300 (500 short-term)	300 (500 short-term)	500 (at 50°C)	200 (300 short-term)	15	15	–	15	–	8	25	5	20 (HD 200)	²⁾ Observe product information – Use with appropriate surfactant component						2 (> 60°C)	15 (25 at > 65°C)	25	
Demulsifying, Emulsifying	D	D	D	D	D	D	D	D	D	E	D	E	D	D	D	D	–	–	–	–	–	–	D	D	D	
Density at 15 °C	in kg/m ³ 1036 ± 15	1078 ± 20	1035 ± 15	1050 ± 15	1037 ± 15	1038 ± 15	1053 ± 15	1044 ± 15	1120 ± 15	1058 ± 20	1092 ± 15	1090 ± 15	1145 ± 15	1168 ± 15	1360 ± 15	1265 ± 20	1335 ± 25	1579 ± 25	1435 ± 20	1410 ± 20	1433 ± 20	1079 ± 15	1035 ± 15	1025 ± 20	1020 ± 20	1047 ± 15



Advanced Circular Technologies

ACT, Advanced Circular Technologies, answers the challenge to transform our value chain from linear to circular - without compromising on performance!

ACT sums up everything we do for this transformation process: starting with raw materials to the application of our lubricant solutions and up to recycling at the end of the life cycle.

TIME TO ACT: we gradually replace finite raw materials with renewable, bio-based or recycled ones. This also applies to our packs. As of 2024, our FUCHS small packs are made of 100% recycled materials.

Note
The information contained in this product information is based on the experience and know-how of FUCHS LUBRICANTS GERMANY GmbH in the development and manufacturing of lubricants and represents the current state-of-the-art. The performance of our products can be influenced by a series of factors, especially the specific use, the method of application, the operational environment, component pre-treatment, possible external contamination, etc. For this reason, universally-valid statements about the function of our products are not possible. Our products must not be used in aircrafts/spaceships or their components, unless such products are removed before the components are assembled into the aircraft/spacecraft. The information given in this product information represents general, non-binding guidelines. No warranty expressed or implied is given concerning the properties of the product or its suitability for any given application.

We therefore recommend that you consult a FUCHS LUBRICANTS GERMANY GmbH application engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care.

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Contact:



FUCHS LUBRICANTS GERMANY GmbH
Friesenheimer Straße 19
68169 Mannheim / Germany
Phone: +49 621 3701-0
Fax: +49 621 3701-7000
E-Mail: zentrale-flg@fuchs.com
www.fuchs.com/de

Export Division
Friesenheimer Straße 19
68169 Mannheim / Germany
Phone: +49 621 3701-1713
Fax: +49 621 3701-7713
E-Mail: export-flg@fuchs.com
www.fuchs.com/de/en