

## System cleaners

## Corrosion protection

Product designation	GROTANOL FF 1 N	RENOCLEAN FXM 4005	ACTICIDE OX/ MBS/WB 200	SYNTHETIC				OIL-BASED				
				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	
<b>Function</b>	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.	
<b>Remarks</b>	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, flood and spray applications.	Free of nitrite and borate, protects against corrosion in the vapour phase, suitable for grinding, for immersion, pressure flood, flood and spray applications.	Emulsion cleaner and corrosion protection emulsion for immersion, flush and spray application. Free of barium and boron compounds, contains no monoethanolamine.	Dewatering Fluids. Forms a thin barium-free oily/waxy corrosion protection film, dip and flood application, spraying conditionally possible.	Oily film. Barium-free concentrates, applicable in many, preferably Renoclean solvents.	
<b>Application</b> 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	
<b>Foaming tendency</b>	none	none	none	low	lowest	low	strong	low	low to moderate			
<b>Materials</b> Fe – steel, iron, cast iron and stainless steel	Fe Al Zn Cu Ms Others			X X X X X X All materials <sup>1</sup>	X X <sup>1</sup>	X	X X X X <sup>1</sup> X X Mg	X	X X X <sup>1</sup> All materials <sup>1</sup>	X X X X X X All materials <sup>1</sup>	X X X X X X All materials <sup>1</sup>	
<sup>1</sup> to check first.	Corresponding cooling lubricant											
<b>Corrosion protection</b> , 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
<b>pH (2 %)</b> , 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	–	–	
<b>Concentration</b> 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 %
<b>Temperature</b> 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	
<b>Spray pressure</b>	in bar up to ca.	Corresponding cooling lubricant		100	500 (at 50 °C)	10	1	300	5	1	–	
<b>Demulsifying, Emulsifying</b>		E	E	–	–	D	–	–	–	E	–	–
<b>Density</b> at 15 °C	in kg/m³	1010 ± 15	1005 ± 15	–	1079 ± 15	1078 ± 20	1068 ± 15	1033 ± 15	1035 ± 15	995 ± 20	–	–

## Solvent cleaners

Product designation	RENOCLEAN MTS 7001	RENOCLEAN MVS 8015 / MVS 8016	RENOCLEAN MVS 9004	RENOCLEAN MVS 9014	FUCHS MULTICLEAN	RENOCLEAN MVS 8010	RENOCLEAN MVS 7008		
								<b>Function</b>	Cleaner based on modified alcohols.
<b>Remarks</b>	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.	Gentle cleaning, for precision mechanics and electronic parts cleaning, non-irritating to skin.	Fine cleaning, fast drying. Easy application, for solvent systems without permanent distillation.		
<b>Application</b> S – Spray/H.-pressure D – Immersion/Ultrasonic T – Spray + Immersion	S D T Others	T	T	T	T	T	T		
<b>Foaming tendency</b>	none	none	none	none	none	none	none		
<b>Materials</b> Fe – steel, iron, cast iron and stainless steel	Fe Al Zn Cu Ms Others	X X X X X X All materials, Plastics <sup>1</sup>	X X X X X X All materials, Plastics <sup>1</sup>	X X X X X X All materials, Plastics <sup>1</sup>	X X X X X X All materials, Plastics <sup>1</sup>	X X X X X X All materials, Plastics <sup>1</sup>	X X X X X X All materials, Plastics <sup>1</sup>		
<sup>1</sup> to check first.									
<b>Evaporation figure</b> (Ether = 1)	ca.	125	93	115	900	900	120		
<b>Flash point</b>	in °C	≥ 61	≥ 56	≥ 62	≥ 86	≥ 86	≥ 61	≥ 61	
<b>Boiling range</b>	in °C	165 - 175	179 - 197	184 - 206	217 - 255	217 - 255	180 - 330	180 - 220	160 – 245
<b>Concentration</b> standard (range)	in %	100	100	100	100	100	100	100	
<b>Spray pressure</b>	in bar up to ca.	System-dependent					–	System-dependent	
<b>Demulsifying, Emulsifying</b>		–	–	–	–	D	–	–	
<b>Density</b> at 15 °C	in kg/m³	880 ± 10	760 ± 10	763 ± 10	815 ± 20	814 ± 20	795 ± 15	766 ± 10	790 ± 25

## Personal Care

Product designation	SKIN PROTECTION (BEFORE WORK)		SKIN CLEANING	
	RENOCLEAN HAND PROTECT MULTI	RENOCLEAN HAND WASH MILD	RENOCLEAN HAND WASH INTENSIVE	RENOCLEAN HAND WASH INTENSIVE
<b>Function</b>	Silicone-free, mark-free, breathable and universally applicable skin protection cream.	Mild, soap-free, unscented skin cleansing gel.	Abrasive hand cleanser for the strongest soiling.	Abrasive hand cleanser for the strongest soiling.
<b>Application</b>	Before handling with changing working materials (water soluble and water insoluble pollutants and irritants).	For cleansing heavily stressed and sensitive skin, can also be used as shower gel.	Excellent for cleaning very heavily soiled hands in repair shops, mechanical engineering and many other areas.	Excellent for cleaning very heavily soiled hands in repair shops, mechanical engineering and many other areas.
<b>Remarks</b>	Forms a thin, invisible and protective film on the skin. Active support of the cleaning after work.	Especially suitable where frequent hand washing is necessary. Free of perfume, colorants and preservatives.	With natural scrubbing agents from corncobs, with pleasant orange scent. Is pH-neutral and contains skin care substances.	With natural scrubbing agents from corncobs, with pleasant orange scent. Is pH-neutral and contains skin care substances.
<b>Available packaging</b>	Carton with 20 x 100 ml tube Carton with 6 x 1000 ml pouch bottle	Carton with 25 x 250 ml bottle Carton with 6 x 2000 ml pouch bottle	Carton with 25 x 250 ml bottle Carton with 6 x 2000 ml pouch bottle	Carton with 25 x 250 ml bottle Carton with 6 x 2000 ml pouch bottle
<b>Accessories</b>	RENOCLEAN DONA 2000K dispenser (for pouch bottle)			
<b>SKIN CARE</b>				
<b>Product designation</b>	<b>RENOCLEAN HAND CARE</b>			
<b>Function</b>	Silicone-free skin care cream.			
<b>Application</b>	After work, ideally suited as care cream for hands whose natural protective barrier is attacked during work.			
<b>Remarks</b>	Contains nourishing vegetable oils, beeswax and moisture-regulating substances. Keeps the skin healthy and strong with regular use.			
<b>Available packaging</b>	Carton with 20 x 100 ml tube Carton with 6 x 1000 ml pouch bottle			
<b>Accessories</b>	RENOCLEAN DONA 2000K dispenser (for pouch bottle)			

## RENOCLEAN

### Perfect Cleaning – Cleaner for Metalworking



MOVING YOUR WORLD

## Neutral cleaner

Product designation	RENOCLEAN MSO 3011	RENOCLEAN WSA 3002	RENOCLEAN MTO 3002	RENOCLEAN MTO 3001	RENOCLEAN MTO 3003	RENOCLEAN MSO 3004	RENOCLEAN VR 1021 CXV	RENOCLEAN VR 1021	RENOCLEAN C 20 K 1427
<b>Function</b>	Neutral cleaner for spray and high-pressure cleaning, high-pressure deburring.	Spray cleaner for high-pressure cleaning and deburring systems.	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.	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 for spray application.	Neutral cleaner with very good corrosion protection for ferrous metals, spray application.
<b>Remarks</b>	Highly demulsifying, almost foam-free above 25°C, salt-free.	Virtually foam-free from 30°C.	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.	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.	Residue formation very low, usable before heat treatment, salt-free.	Low residue formation, usable before heat treatment, salt-free.
<b>Application</b> S – Spray/H.-pressure D – Immersion/Ultrasonic T – Spray + Immersion	S	S	S (T)	T HD-Gerät	T	S	S (T)	S	S
<b>Foaming tendency</b>	lowest	lowest	lowest	low	lowest	lowest	lowest	low	low
<b>Materials</b> Fe – steel, iron, cast iron and stainless steel	X X X	X X	X X <sup>1</sup>	X X X <sup>1</sup>	X X X	X X X	X X <sup>1</sup>	X X	X
<sup>1</sup> to check first.	Others Plastics <sup>1</sup>	Others Plastics <sup>1</sup>	Mg <sup>1</sup>	Red brass, Plastics <sup>1</sup>	Plastics <sup>1</sup>	Mg <sup>1</sup>	Mg <sup>1</sup>	Mg <sup>1</sup>	Mg <sup>1</sup>
<b>Corrosion protection,</b> Chips/filter test 0/0	at x % in y ° dH	temporary, '2 %/DI water	temporary, '2,5 %/10° dH	temporary, '2 %/10° dH	temporary, '2 %/DI water	temporary, '2 %/DI water	temporary, '2 %/10° dH	temporary, '2 %/10° dH	temporary, '1,5 %/10° dH
<b>pH (2 %),</b> if applicable	9.2 ± 0.4 (3.5 %)	9.2 ± 0.4	9.4 ± 0.5	9.5 ± 0.4	9.5 ± 0.4	9.8 ± 0.4	9.8 ± 0.3	10.2 ± 0.3	10.2 ± 0.4
<b>Concentration</b> standard (range)	in % 3 (1 – 5)	2 (1 – 5)	3 (2 – 5)	2,5 (1 – 7)	3 (2 – 7)	2,5 (1 – 5)	3 (1 – 5)	2 (1 – 5)	2 (1 – 5)
<b>Temperature</b> standard (range)	in °C 50 (20 – 80)	65 (30 – 80)	60 (20 – 80)	60 (30 – 80)	60 (30 – 80)	60 (10 – 80)	65 (30 – 80)	65 (30 – 80)	65 (40 – 80)
<b>Spray pressure</b>	in bar up to 600	30 HD 350	500 (at 50 °C)	15	300 (500 short-term)	500 (at 50 °C)	200 (300 short-term)	20	15
<b>Demulsifying, Emulsifying</b>	D	D	D	D	D	D	D	D	D
<b>Density</b> at 15 °C	in kg/m³ 1036 ± 15	1082 ± 15	1078 ± 20	1035 ± 15	1050 ± 15	1038 ± 15	1053 ± 15	1040 ± 15	1044 ± 15

## One-component products

RENOCLEAN MTA 3003	RENOCLEAN MDA 4201	RENOCLEAN WSA 4002	RENOCLEAN FDC 4001	RENOCLEAN MDA 4002	RENOCLEAN FSA 4017
Multimetal capable spray and immersion cleaner, suitable for ultrasonic cleaning.	Multimetal 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.
Universally applicable, e.g. for non-cutting removed 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. rail-road, 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)..
T	T Manual, floor cleaning equipment	S (T) Manual, Steam-jet device	D	D (T)	S (T)
moderate	strong	low	strong	moderate	low
X X X <sup>1</sup>	X X X <sup>1</sup>	X X X <sup>1</sup>	X X X <sup>1</sup>	X X X <sup>1</sup>	X X X <sup>1</sup>
Plastics <sup>1</sup>	Plastics <sup>1</sup>	Mg <sup>1</sup>	Titan, Mg <sup>1</sup>	Mg	Mg <sup>1</sup>
temporary, '3 %/10° dH	–	temporary, '2,5 %/20° dH	–	temporary, '2,5 %/20° dH	temporary, 2 %/20° dH
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
3 (2 – 7)	4 (2 – 7)	3 (2 – 7)	5 (2 – 33)	4 (1 – 7)	3 (1 – 7)
65 (40 – 80)	65 (20 – 80)	60 (30 – 80)	65 (20 – 80)	65 (40 – 80)	65 (35 – 85)
15	–	15	–	8	25
D	E	D	E	D	D
1120 ± 15	1058 ± 20	1092 ± 15	1090 ± 15	1145 ± 15	1168 ± 15

## Acidic cleaner

RENOCLEAN FTM 1001	RENOCLEAN FSO 2010
Derusting, decalcification phosphoric acid for immersion, ultrasonic and manual application.	Neutral deruster for spray, immersion and ultrasonic application.
Suitable for cleaning calcified and germinated cleaning systems. Integrated consumption indicator.	Chloride free, applicable after thermal or ECM deburring.
T Manual, High pressure device	T Manual, High pressure device
moderate	low
X X <sup>1</sup>	X X
Mg, Plastics <sup>1</sup>	Mg, Plastics <sup>1</sup>
–	–
1.5 ± 0.5 (DI water)	5.9 ± 0.5 (5 %)
10 (5 – 50)	10 (2 – 30)
30 (20 – 60)	50 (20 – 70)
5	20 (HD 200)
D	D
1360 ± 15	1265 ± 20

## Customized products

RENOCLEAN SPEZIAL 2000	RENOCLEAN GXA 3004/GXA 4014	RENOCLEAN GSO 3001	RENOCLEAN GTM 3001	RENOCLEAN GXM 3001	RENOCLEAN AKTIV DA
Emulsifying universal cleaner for floors, halls and vehicle fleet.	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.
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.).
T Manual, High pressure device	T Manual, floor cleaning/Steam-jet device	T Manual	T	T Manual	T Manual
strong	moderate	low	low	none	low
X X <sup>1</sup>	X <sup>1</sup> X <sup>1</sup>	X X	–	–	–
Mg, Paints <sup>1</sup> , Plastics	Mg, Paints <sup>1</sup> , Plastics	Plastics	All materials <sup>1</sup>	–	–
–	–	–	–	–	–
10.9 ± 0.4 (3 %)	9.1 ± 0.6 (100 %)	8.5 ± 0.5 (100 %)	8.7 ± 1	8.8 ± 1.2 (100 %)	9.3 ± 0.7 (100 %)
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)
35 (20 – 80)	20 (20 – 90)	50 (20 – 80)	50 (20 – 80)	–	–
–	–	5	5	–	–
E	E	E	–	–	D
1045 ± 20	1047 ± 15	1036 ± 15	1004 ± 15	1017 ± 15	998 ± 15

## Builder components

RENOCLEAN MTA 2001	RENOCLEAN MTA 4001	RENOCLEAN FTA 4002	RENOCLEAN ENTFETTER 39	RENOCLEAN FTA 4001	RENOCLEAN VR 3222/VR 2729 K
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 flood, floor and spray application.	Builder, highly alkaline, for immersion, pressure flooding, ultrasonic and spray cleaning, electrolyte degreasing, dephosphating.	Synthetic builders with corrosion protection, recyclable, for immersion, pressure flood, floor and spray application.
Borate, silicate and surfactant free, microfilterable. <sup>2)</sup>	Borate, silicate and surfactant free, microfilterable. <sup>2)</sup>	Borate, silicate and surfactant free, microfilterable. <sup>2)</sup>	Borate and surfactant free, microfilterable. <sup>2)</sup>	Borate, silicate and surfactant free, microfilterable. <sup>2)</sup>	Free of nitrite, borate, silicate and surfactants, suitable for high pressure, microfilterable, salt free. <sup>2)</sup>
T	T	T	T	T	T
none	none	none	none	none	none
X X <sup>1</sup>	X X <sup>1</sup>	X X <sup>1</sup>	X X <sup>1</sup>	X X <sup>1</sup>	X X X <sup>1</sup>
Plastics	Plastics, Mg <sup>1</sup>	Mg, Plastics <sup>1</sup>	Mg, Plastics <sup>1</sup>	Mg, Plastics <sup>1</sup>	Plastics
–	–	–	–	–	temporary, '3,5 %/10° dH
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 %)
4 (2 – 8)	4 (2 – 8)	4 (2 – 8)	5 (1 – 20)	5 (2 – 20)	2 (0.5 – 5)
7.8 ± 0.8	65 (20 – 80)	65 (20 – 80)	65 (20 – 80)	65 (20 – 85)	60 (20 – 80)
–	–	–	–	–	–
–	–	–	–	–	–
–	–	–	–	–	–
15 ± 20	1020 ± 20	1025 ± 20	1047 ± 15	1050 ± 20	1020 ± 20

## Surfactant components

RENOCLEAN MTT 2003	RENOCLEAN TENSID 161	RENOCLEAN VR 1500	RENOCLEAN MDT 3002
Cleaning booster for immersion, pressure flood, ultrasonic and spray cleaning.	Cleaning booster for immersion, ultrasonic and pressure flood cleaning.	Cleaning booster for spray cleaning, neutral cleaner.	Cleaning booster, emulsifying, for immersion, ultrasonic and pressure flood cleaning.
Microfilterable, strongly dependent on membrane and working parameters! Sprayable ≥ 40°C.	Microfilterable, strongly dependent on membrane and working parameters!	As neutral cleaner free from corrosion protection components.	Good ultrasonic support, high oil and fat absorption.
T	D	S	D
low	moderate to strong	very low	strong
X X X <sup>1</sup>	X X X <sup>1</sup>	X X X <sup>1</sup>	X X X <sup>1</sup>
All materials <sup>1</sup>	All materials <sup>1</sup>	All materials <sup>1</sup>	All materials <sup>1</sup>
7.9 ± 1.2 (1 %)	9.1 ± 0.6	8.5 ± 0.5	9.8 ± 1.0 (3 %)
1 (0.4 – 5)	0.4 (0.1 - 1)	1 (0.3 – 5)	1 (0.3 – 2)
65 (20 – 80)	65 (20 – 80)	65 (30 – 80)	65 (20 – 80)
15 (25 at > 65 °C)	2 (> 60 °C)	25	0.5
D	D	D	E
1020 ± 20	1025 ± 20	1047 ± 15	1050 ± 20

### 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/spacecrafts 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.

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