

NEW at ROTH Edition 1/2016

NEW Products and Programme Extensions
in Labware and Chemicals



ROTH



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Centrifuges



Medifuge small benchtop centrifuge with 2-in-1 hybrid rotor

By Thermo. With eight-slot hybrid rotor for centrifuging blood sample vessels, urine test tubes and standard centrifuge tubes. Depending on whether fixed-angle buckets (45°) or swing-out buckets (90 °C) are used in the rotor, various types of centrifugation are possible. Mixed bucket configurations (fixed-angle and swing-out buckets) are also possible.

- Centrifugation time, variably adjustable in rpm or x g
- Memory for four programs with one-touch button
- Three braking profiles – standard, soft and brake off

For using the following vessel types:

Fixed-angle buckets

- 8 x 15 ml centrifuge tubes, Falcon type (Ø 17 x L 120 mm)
- 8 x 15 ml standard test tubes (Ø 17 x L 100 mm)
- 8 x 6/12/15 ml glass tubes (Ø 12/16 x L 100/125 mm)
- 8 x 1.2-4.3 ml blood vials (Ø 8-13 x L 66/75 mm)
- 8 x 4.5-4.9 ml blood vials (Ø 11 x L 92 mm/Ø 13 x L 90 mm)
- 8 x 7.5-10 ml blood vials (Ø 15/16 x L 92 mm)
- 8 x 9-10 ml blood vials (Ø 16 x L 92 mm)
- 8 x 9.5-10 ml urine test tubes (Ø 15 x L 100 mm)

Swing-out buckets

- 8 x 15 ml standard test tubes (Ø 17 x L 100 mm)
- 8 x 6/12/15 ml glass tubes (Ø 12/16 x L 100 mm)
- 8 x 1.2-4.3 ml blood vials (Ø 8-13 x L 66/75 mm)
- 8 x 4.5-4.9 ml blood vials (Ø 11 x L 92 mm, Ø 13 x L 90 mm)
- 8 x 7.5-10 ml blood vials (Ø 15/16 x L 92 mm)
- 8 x 9-10 ml blood vials (Ø 16 x L 92 mm)
- 8 x 9.5-10 ml urine test tubes (Ø 15 x L 100 mm)

Technical specifications:

Maximum speed	4900 rpm, adjustable in increments of 100 rpm
Minimum speed	300 rpm
Maximum RCF	Fixed-angle bucket: 3114 x g Swing-out bucket: 3490 x g
Operating time	1-99 mins/continuous run function/short cycle (pulse key)
Dimensions (W x D x H)	241 x 325 x 450 mm
Power requirement	130 W
Weight	15.5 kg
Power supply	220-230 V, 50/60 Hz

Delivery incl. DualSpin™-rotor with fixed-angle and swing-out bucket set (each with eight fixed-angle and swing-out buckets) and adapter set for various vessels.

Art. No.	Pack Qty.	€
EEE1.1	1	1100,00



CD-0412 small benchtop centrifuge

With 12-slot angle rotor (45°) for centrifuging blood sample vessels, urine test tubes and centrifuge tubes (Falcon type).

- Illuminated display
- centrifugation time, in rpm or x g
- The timer starts once the selected speed is reached
- Safety: Cover lock, speed monitoring system and protection against overheating

For use of the following types of vessel:

- 12 x 15 ml standard test tubes (Ø 17 x L 100 mm)
- 6 x 15 ml Falcon centrifuge tubes (Ø 17 x L 120 mm)
- 12 x 2.7-4.3 ml blood vials (Ø 13 x L 75 mm)
- 12 x 4.5-4.9 ml blood vials (Ø 11 x L 92 mm, Ø 13 x L 90 mm)
- 12 x 7.5-10 ml blood vials (Ø 15/16 x L 92 mm)
- 12 x 9-10 ml blood vials (Ø 16 x L 92 mm)
- 12 x 9.5-10 ml urine test tubes (Ø 15 x L 100 mm)

Technical specifications:

Maximum speed	4500 rpm, adjustable in increments of 100 rpm
Minimum speed	300 rpm
Maximum RCF	2490 x g
Operating time	30 s to 99 mins/continuous run function/short cycle (pulse key)
Dimensions (W x D x H)	140 x 255 x 245 mm
Weight	6.7 kg
Power supply	100-240 V, 50/60 Hz

Delivery incl. 12-slot angle rotor, adapter set (socket Ø inner 16 mm, H 80 mm) and spacers (H 21 mm).

Art. No.	Pack Qty.	€
EEE2.1	1	747,15



NEU
NOUVEAU
NEW

TIN-series small incubators

- Operating temperature range from +5 °C above room temperature to 70 °C; temperature adjustment range from 20 to 70 °C
- Digital timer (adjustable from 1 min to 99 hrs or continuous run)
- Glass window in the door for monitoring the samples
- Natural air flow (convection)
- Stainless steel interior
- Test opening (∅ 5 mm) on top e.g. for introducing sensors

Technical specifications:

Type	TIN-IN16B	TIN-IN35B
Capacity (l)	16	35
Temperature deviation at 37 °C (°C)	±0.4	
Inner dimensions W x H x D (mm)	270 x 230 x 255	360 x 300 x 320
Outer dimensions, W x D x H (mm)	505 x 370 x 400	595 x 440 x 460
Shelves: Standard/max. number	2/6	
Heating time up to 37 °C (min)	18	22
Weight (kg)	23	33
Rated power (W)	85	125
Power supply	230 V, 50/60 Hz	

Type	Capacity (l)	Art. No.	Pack Qty.	€
TIN-IN16B	16	EEH0.1	1	731,00
TIN-IN35B	35	EEH1.1	1	854,65

Accessories for TIN-series incubators

Stainless steel rack

For model	Art. No.	Pack Qty.	€
TIN-IN16B	EEH2.1	1	51,60
TIN-IN35B	EEH3.1	1	63,45



NEU
NOUVEAU
NEW

Water baths, WB-series

For an operating temperature range from 5 °C and room temperature to 100 °C (adjustment range from 10 to 100 °C).

- Stainless steel inner tank
- LCD display for displaying nominal/actual temperature values
- Integrated digital clock (1 min to 99 h, 59 min or continuous)
- Overheating protection
- Heater exposed on floor

Model WB-22-P

With built-in circulation pump for faster and more even heat distribution within the bath.

Technical specifications:

Model	WB-12	WB-22	WB-22-P
Useable volume			
Capacity approx. (l)	12	22	22
Width (mm)	390	490	490
Depth (mm)	220	290	290
Height (mm)	150	150	150
Units			
Width (mm)	480	680	680
Depth (mm)	310	365	365
Height incl. lid (mm)	375	395	395
Temperature constancy (±K)	0.5	0.5	0.2
Heating capacity (kW)	900	1100	1100
Max. number of test tubes	4	8	8
Weight	12	18	19
Power supply	230 V, 50 Hz		

Delivery incl. removable shelf and stainless steel cover.

Type	Art. No.	Pack Qty.	€
WB-12	EEA3.1	1	489,15
WB-22	EEA4.1	1	833,15
WB-22-P	EEA5.1	1	897,65

Sample Preparation



A 10 basic analysis mill

By IKA. Comminutes hard, brittle materials, as well as soft and fibrous materials. Integrated cooling water connections (for hoses with an inner \varnothing of 8 mm). A choice of stainless steel beaters and a cutter that can be swapped depending on the material to be comminuted. Can only be operated with the lid closed.

- Digital timer (can be set to between 1 s and 5 mins) that shows the comminuting time
- Interval function (if the timer function has been activated, the equipment runs for 15 s and then stops for 1 s, repeating this pattern until the set time has elapsed)

Technical specifications:

Usable volume	50 ml
Power: Consumption/output	300/240 W respectively
Max. duty time	5 mins on/10 mins off
Max. speed (fixed)	25,000 rpm
Max. circumferential speed	70 m/s
Max. feed size	6 mm (impact grinding) 10 mm (cutting)
Grinding chamber can be cooled by	Water: Yes Dry ice: Yes Liquid nitrogen: No
Dimensions (W x D x H)	130 x 145 x 250 mm
Weight	2.9 kg
Power supply	220-240 V, 50/60 Hz

Delivery incl. ① A 10.1 stainless steel beater (stainless steel 1.4034) suitable for most brittle materials up to a Mohs hardness of 5 and A 10.4 grinding chamber reducer (stainless steel 1.4301) for small sample material volumes.

Art. No.	Pack Qty.	€
EEA9.1	1	1552,00

Accessories for A 10 basic analysis mill

By IKA.

② A 10.3 carbide beater

Made from tungsten carbide for relatively hard materials up to a Mohs hardness of 9.

Art. No.	Pack Qty.	€
EEC0.1	1	204,00

③ A 10.2 star-shaped cutter

For fibrous materials such as paper and plant material, as well as plastics, including material with a low specific weight.

Art. No.	Pack Qty.	€
EEC1.1	1	99,00



Polytron® PT 10-35 GT stand dispersing unit

By Kinematica. For working volumes of up to 8 l. Powerful motor keeps constant even when viscosity changes. Soft start (e.g. at a preselected speed). Audible fault warning. Digital actual speed display (3-digit).

Technical specifications:

Motor rating (input/output)	1200/800 W
Speed adjustment	Continuously variable
Speed range	500 to 30,000 rpm
Speed display	Digital
Dimensions (L x W x H)	95 x 210 x 247 mm
Weight	3.2 kg
Power supply	230 V, 50 Hz

Delivery incl. extension arm (\varnothing 12 mm, L 200 mm). Dispersion units, please order boss head and stand separately.

Art. No.	Pack Qty.	€
EET2.1	1	1825,35

Dispensing aggregates for Polytron® PT 10-35 GT PT-DA 20/2EC-F193 and PT-DA 30/2EC-F250 aggregates

For producing dispersions and emulsions. Disperses plant and animal tissue, resins and pigments. Can be used for cell disruption.

Biotrona® PT-DA 36/3BEC-F250 aggregate

For highly turbulent mixing with low shear forces. Rapidly dissolves and suspends solids. For tasks that involve mixing highly viscous media.

Technical specifications:

Model	PT-DA 20/2EC-F193	PT-DA 30/2EC-F250	PT-DA 36/3BEC-F250
Working range (ml)	20 to 2000	100 to 4000	500 to 8000
Stator \varnothing (mm)	20	30	36
Rotor \varnothing (mm)	15	23	30
Approx. min./max. immersion depth (mm)	40/170	40/230	90/230
Materials in contact with product	PTFE, AISI 316L	GL-Bronze/AISI 316L	
Temperature range (°C)	Max. 180		
Approx. suspension fineness (μ)	1 to 20	5 to 25	n.a.
Approx. emulsion fineness (μ)	1 to 5	1 to 10	n.a.

Type	Art. No.	Pack Qty.	€
PT-DA 20/2EC-F193	EET3.1	1	1348,05
PT-DA 30/2EC-F250	EET4.1	1	1707,10
PT-DA 36/3BEC-F250	EET5.1	1	1989,85



Programme extension!



Programme extension!

Filter papers – folded filters

By Macherey-Nagel. For **qualitative analysis**. Ash content approx. 0.1%. Alpha cellulose content approx. 95%.

Type MN 615 ¼, medium filtration speed

General purpose thin filter paper. Especially suited to filtering water and saline solutions. Surface weight 70 g/m². Filtration time in accordance with DIN 53137: 22 s. Retention efficiency: >4 µm.

Dia. (mm)	Type	Thickness (mm)	Art. No.	Pack Qty.	€
70	MN 615 ¼	0,16	A795.1	100	22,30
90	MN 615 ¼	0,16	A796.1	100	22,30
110	MN 615 ¼	0,16	A797.1	100	22,30
125	MN 615 ¼	0,16	A798.1	100	22,30
150	MN 615 ¼	0,16	A799.1	100	22,30
185	MN 615 ¼	0,16	A800.1	100	24,30
210	MN 615 ¼	0,16	A801.1	100	35,30
240	MN 615 ¼	0,16	Y856.1	100	35,30
270	MN 615 ¼	0,16	Y857.1	100	41,00
320	MN 615 ¼	0,16	Y858.1	100	50,30
380	MN 615 ¼	0,16	Y859.1	100	73,50

Type MN 617 ¼, quick filtration speed

For quickly filtering out coarse deposits. Surface weight 85 g/m². Filtration time in accordance with DIN 53137: 92 s. Retention efficiency: >7 -12 µm.

Dia. (mm)	Type	Thickness (mm)	Art. No.	Pack Qty.	€
70	MN 617 ¼	0,2	EEY9.1	100	25,90
90	MN 617 ¼	0,2	EHA0.1	100	25,90
110	MN 617 ¼	0,2	EHA1.1	100	25,90
125	MN 617 ¼	0,2	EHA2.1	100	25,90
150	MN 617 ¼	0,2	EHA3.1	100	25,90
185	MN 617 ¼	0,2	EHA4.1	100	31,00
240	MN 617 ¼	0,2	EHA5.1	100	46,50
270	MN 617 ¼	0,2	EHA6.1	100	54,80
320	MN 617 ¼	0,2	EHA7.1	100	72,00
385	MN 617 ¼	0,2	EHA8.1	100	100,00

Type MN 619 eh ¼, slow filtration speed

For filtering out fine and ultra-fine deposits. Surface weight 85 g/m². Filtration time in accordance with DIN 53137: 140 s. Retention efficiency: >2 -4 µm.

Dia. (mm)	Type	Thickness (mm)	Art. No.	Pack Qty.	€
70	MN 619 eh ¼	0,17	EHA9.1	100	25,50
90	MN 619 eh ¼	0,17	EHC0.1	100	25,50
110	MN 619 eh ¼	0,17	EHC1.1	100	25,50
125	MN 619 eh ¼	0,17	EHC2.1	100	25,50
150	MN 619 eh ¼	0,17	EHC3.1	100	25,50
185	MN 619 eh ¼	0,17	EHC4.1	100	46,50
240	MN 619 eh ¼	0,17	EHC5.1	100	46,50
270	MN 619 eh ¼	0,17	EHC6.1	100	54,80
320	MN 619 eh ¼	0,17	EHC7.1	100	72,00
385	MN 619 eh ¼	0,17	EHC8.1	100	100,00

Filter papers - round filters MN 640

By Macherey-Nagel. For **quantitative analysis**. Made of noble cellulose washed in acid and linters with a cellulose content of over 95 %. Ash content <0.01 %. Temperature stable up to +130 °C. gsm substance 85 g/m². Filtration time acc. to DIN 53137.

Type MN 640 w

Quick filtering, filtration time 9 s. Equivalent black band.

Soft filter, loosely structured. Ideal for coarses sediments such as ferric/aluminium hydroxide, bismuth/copper/ferric sulphide, nickel/diacetyldioxine, etc. Standard filter for Si-analysis. Retention range: >8 µm.

Dia. (mm)	Type	Thickness (mm)	Art. No.	Pack Qty.	€
55	MN 640 w	0,2	EEX7.1	100	8,95
70	MN 640 w	0,2	A780.1	100	11,95
90	MN 640 w	0,2	A781.1	100	17,00
110	MN 640 w	0,2	A782.1	100	24,95
125	MN 640 w	0,2	A783.1	100	28,50
150	MN 640 w	0,2	A784.1	100	38,90
185	MN 640 w	0,2	EEX8.1	100	58,90
240	MN 640 w	0,2	EEX9.1	100	95,00
320	MN 640 w	0,2	EEY0.1	100	164,00

Type MN 640 m

Medium filtering, filtration time 27 s. Equivalent white band.

Ideal for sediments such as sulphides, lead chromate, calcium oxalate. Typical fields of application: Gravimetric analysis, quantitative analysis of residue and purification processes. Retention range: >4 µm.

Dia. (mm)	Type	Thickness (mm)	Art. No.	Pack Qty.	€
55	MN 640 m	0,2	EEY1.1	100	8,95
70	MN 640 m	0,2	A785.1	100	11,95
90	MN 640 m	0,2	A786.1	100	17,00
110	MN 640 m	0,2	A787.1	100	24,95
125	MN 640 m	0,2	A788.1	100	28,50
150	MN 640 m	0,2	A789.1	100	38,80
185	MN 640 m	0,2	EEY2.1	100	58,90
240	MN 640 m	0,2	EEY3.1	100	95,00
320	MN 640 m	0,2	EEY4.1	100	164,00

Type MN 640 d

Slow filtering, filtration time 140 s. Equivalent blue band.

Dense filters for all fine and extra fine sediments. Retention range: >2 µm.

Dia. (mm)	Type	Thickness (mm)	Art. No.	Pack Qty.	€
55	MN 640 d	0,2	EEY5.1	100	8,95
70	MN 640 d	0,2	A790.1	100	11,95
90	MN 640 d	0,2	A791.1	100	17,00
110	MN 640 d	0,2	A792.1	100	24,95
125	MN 640 d	0,2	A793.1	100	28,50
150	MN 640 d	0,2	A794.1	100	38,90
185	MN 640 d	0,2	EEY6.1	100	58,90
240	MN 640 d	0,2	EEY7.1	100	95,00
320	MN 640 d	0,2	EEY8.1	100	164,00

Balances



Scout® SKX- and STX-series precision balances

By Ohaus.

General features of all models:

- With external adjustment
- Draft shield for models with 0.001 g readability (internal height 45 mm)
- Battery and mains operation
- Connection options for data logging (sold separately)

Technical specifications:

Model	Weighing range (g)	Readability (g)	Reproducibility/linearity (±g)	Weighing pan (mm)
SKX123/STX123 (W)	120	0.001	0.002/0.003	∅ 93
STX223 (W)	220	0.001	0.002/0.003	∅ 93
SKX222/STX222	220	0.01	0.01/0.01	∅ 120
SKX422/STX422	420	0.01	0.01/0.01	∅ 120
SKX622/STX622	620	0.01	0.01/0.02	∅ 120
SKX1202/STX1202	1200	0.01	0.02/0.03	170 x 140
SKX2202/STX2202	2200	0.01	0.02/0.03	170 x 140
SKX421/STX421	420	0.1	0.1/0.1	∅ 120
SKX621/STX621	620	0.1	0.1/0.1	170 x 140
SKX2201/STX2201	2200	0.1	0.1/0.1	170 x 140
SKX6201/STX6201	6200	0.1	0.1/0.2	170 x 140
SKX8200/STX8200	8200	1	1/1	170 x 140

(W) = incl. draft shield

Delivery incl. M1 test weight included in models up to 620 g and mains adapter. Without batteries (sold separately, 4 Mignon 1.5 V batteries are required).

① SKX series

- Application: Determining density
- Background-lit LCD display

Model	Weighing range (g)	Art. No.	Pack Qty.	€
SKX123 (W)	120	EHE8.1	1	375,00
SKX222	220	EHE9.1	1	275,00
SKX422	420	EHH0.1	1	345,00
SKX622	620	EHH1.1	1	375,00
SKX1202	1200	EHH2.1	1	420,00
SKX2202	2200	EHH3.1	1	450,00
SKX421	420	EHH4.1	1	155,00
SKX621	620	EHH5.1	1	175,00
SKX2201	2200	EHH6.1	1	275,00
SKX6201	6200	EHH7.1	1	370,00
SKX8200	8200	EHH8.1	1	420,00

② STX series with touchscreen and additional features

- Application: Percent weighing, parts counting, check weighing, dynamic weighing, totalling, and determining density
- Full-colour touchscreen with WQVGA graphic LCD (4.3" diagonal)
- QWERTY keyboard and numerical keyboard
- 9 different menu language options can be selected
- Up-front level display and adjustable levelling feet

Model	Weighing range (g)	Art. No.	Pack Qty.	€
STX123 (W)	120	EHH9.1	1	560,00
STX223 (W)	220	EHK0.1	1	650,00
STX222	220	EHK1.1	1	420,00
STX422	420	EHK2.1	1	520,00
STX622	620	EHK3.1	1	560,00
STX1202	1200	EHK4.1	1	620,00
STX2202	2200	EHK5.1	1	650,00
STX421	420	EHK6.1	1	230,00
STX621	620	EHK7.1	1	270,00
STX2201	2200	EHK8.1	1	420,00
STX6201	6200	EHK9.1	1	550,00
STX8200	8200	EHL0.1	1	620,00

Accessories:

Accessories	Art. No.	Pack Qty.	€
RS 232 interface kit	EHL1.1	1	55,00
USB host interface kit	EHL2.1	1	85,00
USB device interface kit	EHL3.1	1	65,00
Bluetooth interface kit	EHL4.1	1	105,00
1.5 V AA battery	1022.2	4	5,95



BTG-series precision balances

Application:

- Percent and counting
- Select from 21 weight units: g, ct, kg, lb, etc.

Features:

- Stainless steel weighing platform
- Backlit display showing the capacity
- With external adjustment
- Three-door glass draft shield on the BTG-303 model (interior height of 150 mm)
- RS 232 data port
- Integrated battery operation for mobile use (up to 40 hrs runtime and approx. 12 hrs charging time)

Technical specifications:

Model	Weighing range (g)	Readability (g)	Reproducibility/linearity (±g)	Weighing pans (mm)
BTG-303 (W)	300	0.001	0.001/0.003	∅118
BTG-2002	2000	0.01	0.01/0.03	188 x 148
BTG-6001	6000	0.1	0.1/0.2	188 x 148

(W) = incl. draft shield

Delivery incl. mains adapter, external additional test weight (class M1) and dust cover (BTG-2002 and BTG-6001 models only).

Model	Weighing range (g)	Art. No.	Pack Qty.	€
BTG-303 (W)	300	EEH4.1	1	396,70
BTG-2002	2000	EEH5.1	1	320,35
BTG-6001	6000	EEH6.1	1	278,45



Programme extension!



NEU NOUVEAU NEW

FX-/FZ-series precision balances

By A & D.

Application:

- Percent, counting and animal weighing
- Selectable weight units: g, ct, etc.

Features:

- FX-i models have external adjustment
- FZ-i models have internal adjustment
- **All models with additional WP:**
Dust and water proofing i.a.w. IP 65
- Draft shield for models with 0.001 g readability (internal height 85 mm)
- With RS 232 data port
- Overload protection
- Five-year warranty

Technical specifications:

Model	Weighing range (g)	Readability (g)	Reproducibility/linearity (±g)	Weighing pan Ø (mm)
FX-/FZ-120i (W) FX-/FZ-120i-WP (W)	122	0.001	0.001/0.002	130
FX-/FZ-200i (W) FX-/FZ-200i-WP (W)	220	0.001	0.001/0.002	130
FX-/FZ-300i (W) FX-/FZ-300i-WP (W)	320	0.001	0.001/0.002	130
FX-/FZ-1200i FX-/FZ-1200i-WP	1220	0.01	0.01/0.02	150
FX-/FZ-2000i FX-/FZ-2000i-WP	2200	0.01	0.01/0.02	150
FX-/FZ-3000i FX-/FZ-3000i-WP	3200	0.01	0.01/0.02	150

(W) = incl. draft shield

Delivery incl. mains adapter.

Model	Weighing range (g)	Pack Qty.	External adjustment		Internal adjustment	
			Art. No.	€	Art. No.	€
FX-/FZ-120i (W)	122	1	CTH4.1 *	612,75	EHP8.1 *	811,65
FX-/FZ-120i-WP (W)	122	1	CTH5.1 *	1037,40	CTK6.1 *	1134,15
FX-/FZ-200i (W)	220	1	CTH6.1 *	645,00	EHP9.1 *	854,65
FX-/FZ-200i-WP (W)	220	1	CTH7.1 *	1128,75	CTK7.1 *	1247,00
FX-/FZ-300i (W)	320	1	CTH8.1 *	682,65	EHT0.1 *	892,25
FX-/FZ-300i-WP (W)	320	1	CTH9.1 *	1214,75	CTK8.1 *	1354,50
FX-/FZ-1200i	1220	1	CTK0.1 *	612,75	EHT1.1 *	811,65
FX-/FZ-1200i-WP	1220	1	CTK1.1 *	1037,40	CTK9.1 *	1134,15
FX-/FZ-2000i	2200	1	CTK2.1 *	645,00	EHT2.1 *	854,65
FX-/FZ-2000i-WP	2200	1	CTK3.1 *	1128,75	CTL0.1 *	1247,00
FX-/FZ-3000i	3200	1	CTK4.1 *	682,65	EHT3.1 *	892,25
FX-/FZ-3000i-WP	3200	1	CTK5.1 *	1214,75	CTL1.1 *	1354,50

* Delivery times may apply to these products. Please ask our sales staff.

DAB 100-3 moisture analyser

By Kern.

Features:

- Backlit display: % humidity, % dry matter or weight loss in g
- Heat source: Halogen quartz glass heater
- Switch-off criteria:
 - Automatic switch-off (2 mg weight loss in 45 s)
 - Scheduled switch-off (3 mins up to 99 hrs 59 mins in 10 s intervals)
 - Manual switch-off by pressing a button
- Drying modes: Standard, gentle and quick drying
- Internal memory for automatic execution of 15 drying processes and five memory spaces for test results
- RS 232 data port
- Sample viewing window

Technical specifications:

Weighing range	110 g
Temperature range	40 to 199 °C (1 °C increments)
Readability	0.01%/0.001 g
Reproducibility	0.05% (5 g sample) 0.02 % (10 g sample)
Time range	3 mins up to 99 hrs, 59 mins
Weighing pan	Ø92 mm
Dimensions (W x D x H)	240 x 365 x 180 mm
Weight	4.82 kg
Power supply	220 V, 50 Hz

Art. No.	Pack Qty.	€
EEK2.1	1	1130,00

Accessories:

Disposable aluminium sample pans, 90 mm	YY18.1	80	60,00
Glass fibre filter, 90 mm	X838.1	200	42,00
Calibration weight 100 g, F1	N007.1	1	44,00

Vacuum System / Foot Operated Pumps



SC 920 G vacuum pump system with remote control

By KNF. Chemical-resistant, suitable for aggressive and corrosive gases and vapours.

- Can be controlled via a PC or remote control
- Increased safety: No need to open the fume cupboard to operate the vacuum system
- LCD screen displays actual and target values
- Automatic boiling point detection and boiling point tracking using integrated ramp function
- High recovery rates even with solutions that have very low boiling points
- Delivery rate (in %) can be adjusted via speed
- Integrated gas ballast valve
- Quiet operation

Technical specifications:

Delivery rate	max. 21 l/min
End vacuum abs. without gas ballast	max. 2 mbar
with gas ballast	max. 5 mbar
Tube connection	ID 10 mm
Receiving flask	Made of coated glass (implosion-resistant), capacity: 500 ml
Port	Mini USB
Dimensions (W x H x D)	366 x 423 x 294 mm
Total weight	15.2 kg
Power supply	100-240 V, 50/60 Hz

Materials of pump parts in contact with media:

Pump head	PPS
Diaphragms	PTFE-coated
Valves	FFPM
Seals	FPM
Tube shafts	PVDF

Radio remote control:

Display	LCD
Operation	Touchscreen/push-and-turn dial
Range	max. 50 m
Power supply	Batteries (4 x 1.2 V 2500 mAh AA) or power supply
Dimensions (W x H x D)	90 x 205 x 55 mm
Weight	0.51 kg

Delivery incl. radio remote control with batteries and power supply, 2 Receiving flasks, 2 flask clamps, USB cable for connecting to a PC and software (compatible with Windows).

Art. No.	Pack Qty.	€
EHP1.1	1	3000,35



Solvent pumps, foot operated

By Bürkle. For filling drums with high purity liquids such as solvents.

- A compression gland and stopcock allow the drum and pump to be hermetically sealed
- Immersion tube is infinitely adjustable to drum depth
- Available in two types:
 - ① With discharge tube
 - ② With outlet hose and stopcock

Note: the drum and the pump must be grounded using the Roth antistatic set (Art. No. 0213.1) during filling of flammable liquids.

Technical specifications:

Delivery rate	approx. 30 l/min
Immersion depth	950 mm
Overall length	1485 mm
For drum sizes up to	220 l
Weight	Type ① approx. 3.5 kg / ② approx. 4.4 kg
Compression gland thread type	2" steel fine pitch thread
Parts with media contact	Stainless steel (1.4301) and PTFE

Type	Art. No.	Pack Qty.	€
① With discharge tube	CPT5.1	1	446,15
② With outlet hose and stopcock	CPT6.1	1	596,65



Programme extension!

FiveGo™ portable pH meter

By Mettler-Toledo.

- Waterproof and dust-proof in accordance with protection class IP67
- Ergonomic design for comfortable handling
- Simple, user-friendly menu
- Automatic or manual temperature compensation
- Automatically or manually end a measurement; with acoustic and visual endpoint signal
- Automatic calibration with four predefined buffer groups
- Displays the current calibration and has data memory for 200 measurements

Technical specifications for the devices:

Measuring range/resolution	pH mV °C	0.00 to 14.00 -1999 to +1999 0.0 to +100.0
Accuracy	pH mV °C	±0.01 ±01 ±0.5
Connections	pH °C	BNC Cinch (NTC 30 kΩ)
Calibration		1-/2-/3-point calibration
Data memory		200 measurements, current calibration
Dimensions (L x W x H)		169 x 82 x 36 mm

The FiveGo series is available in the following different versions:

- F2-Meter without pH single-rod measuring cell
- F2-Standard with LE438-IP67 pH single-rod measuring cell for water-based samples, including emulsions and suspensions
- F2-Field with LE438-IP67 pH single-rod measuring cell and carrying case
- F2-Food with LE427-IP67 pH single-rod measuring cell for recess measurements in solid and semi-solid samples, such as meat, fruit, butter, yoghurt or cheese

Technical specifications for the pH single-rod measuring cells:

- LE428-IP67 with integrated temperature sensor (NTC 30 kΩ), pH range 0 to 14, range of application 0 to +80 °C, protection class IP67, nylon diaphragm, plastic shaft, shaft length/∅ 120/12 mm, gel-filled
- LE427-IP67 without temperature sensor, pH range 0 to 11, range of application 0 to +50 °C, protection class IP67, ceramic diaphragm, glass shaft, shaft length/∅ 16/6 mm, gel-filled; for automatic temperature compensation, the NTC 30 kΩ temperature sensor (art. no. Y734.1) can be connected. This is sold separately

Delivery incl. calibration bag (pH 4.01, 7.00 and 9.21), electrode clip, wrist strap and four 1.5 V AAA batteries.

Model	Type	Art. No.	Pack Qty.	€
FiveGo F2-Meter	-	HY66.1	1	320,00
FiveGo F2-Standard	LE438-IP67	HY67.1	1	470,00
FiveGo F2-Field	LE438-IP67, carrying case	HY68.1	1	530,00
FiveGo F2-Food	LE427-IP67	EEP5.1	1	510,00

Accessories:

LE438-IP67 pH single-rod measuring cell with 1 m fixed cable (BNC + Cinch)	EEP6.1	1	160,00
LE427-IP67 pH single-rod measuring cell with 1 m fixed cable (BNC)	EEP7.1	1	150,00
NTC 30 kΩ temperature sensor with 1.2 m fixed cable (Cinch)	Y734.1	1	77,40
Carrying case with 4 sample bottles	EEP8.1	1	80,00



**NEU
NOUVEAU
NEW**

Laboratory pH meter Lab 855

By SI Analytics.

- Large easy-to-use LCD screen and clearly laid out keypad
- Simultaneous display of pH or mV value and temperature
- Can analyse and store current calibration data
- Adjustable calibration interval
- Stability control for identifying stable readings
- Automatic or manual temperature compensation
- Suitable for battery and mains operation
- Can be set to switch off automatically when battery-operated

Technical specifications:

Measuring range/resolution	pH mV °C	-2.000 to +19.999 ±1200.0 / ±2000 -5.0 to +105.0
Accuracy	pH mV °C	±0.005 ±0.3 / ±1 ±0.1
Connections	pH °C	DIN 19262 Banane, 2 x 4 mm (NTC 30 kΩ/Pt 1000)
Calibration		1-/2-/3-point calibration
Dimensions (L x W x D)		230 x 190 x 80 mm
Power supply		100 to 240 V, 50/60 Hz or 4 x 1.5 V AA batteries

Delivery incl. BlueLine pH electrode 14 pH, calibration pouch (4.00, 7.00 and 10.01), electrolyte solution 3 mol/l KCl, tripod, universal power supply and batteries.

Art. No.	Pack Qty.	€
EPH2.1	1	790,15

Microscopy / Clocks



NEU
NOUVEAU
NEW

Model 33208 stereo microscope

By Eschenbach. With LED lighting, reflected light and transmitted light. Can be dimmed as an option – dimmer sold separately.

Technical specifications:

Total magnification	20x/40x – can be expanded up to 80x as an option
Eyepieces	Wide field (WF) 10x Field of view 20 mm Diopter compensation on left eyepiece tube (±5 dpt)
Head	Binocular 45° angular observation Rotatable by 360° Adjustable interocular distance (54-74 mm)
Lenses	Rotation of turret 2x and 4x Parallel lens arrangement
Working distance with 10x WF 2x lens/4x lens	75 mm/45 mm
Lighting	LED, separate reflected and transmitted light and can be controlled in real time
Image focusing	Coarse focus
Stand	Robust metal stand, 180 mm column length
Power supply	100-240 V

Delivery incl. 95 mm Øtable inserts (black/white plastic plate for reflected light, and frosted glass plate for transmitted light), eyepiece cups and dust cover.

Art. No.	Pack Qty.	€
EEC2.1	1	493,45

Accessories:

	Art. No.	Pack Qty.	€
Wide-field eyepieces WF 5x (field of view approx. 22 mm)	P239.1	2	130,10
Wide-field eyepieces WF 15x (field of view approx. 14 mm)	9667.1	2	141,90
Wide-field eyepieces WF 20x (field of view approx. 10 mm)	P240.1	2	140,85
Dimmer	EEC3.1	1	26,70



NEU
NOUVEAU
NEW

Radio wall clocks

Automatic time setting and switch-over to summer/winter time.

① Sweep:

Quiet Sweep movement with no ticking. Plastic housing. Dimensions: Ø 302 x D 47 mm, weight 434 g.

② Corona:

LED-illuminated dial that uses a light sensor to switch on and off automatically, or alternatively, can be switched on and off manually. Dimensions: Ø 308 x D 43 mm, weight 509 g. Separate battery compartment for clock and lighting. Lighting battery life approx. 100 days when used for 8 h/day ("auto" position).

Delivery without batteries. One 1.5 V AA battery (① Sweep) or four 1.5 V AA batteries (② Corona) is/are required.

Image	Type	Art. No.	Pack Qty.	€
①	Sweep	EEC8.1	1	31,75
②	Corona	EEC9.1	1	38,60

Accessories:

1.5 V AA battery	1022.2	4	5,95
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NEU
NOUVEAU
NEW

One-hour signal timer

Stainless steel housing, plastic coating. Shows remaining time in colour. Ringing signal once the time has elapsed. Metal winding movement. Magnetic holder. Dimensions: Ø79 x D 32 mm. Weight 118 g.

Art. No.	Pack Qty.	€
EEC7.1	1	11,75



Test tube with tamper-evident seal

Made of PP. Temperature-resistant from -90 to +121 °C. Autoclavable.

- Leak-proof tamper-evident seal
- Free-standing, conical base for optimal sample recovery
- Frosted label field
- Graduated in 1 ml increments

Volume (ml)	Dimensions, incl. lid (mm)	Vessel Ø x H (mm)
5	24 x 59	16 x 57
10	24 x 96	15 x 94

Volume (ml)	Lid colour	Art. No.	Pack Qty.	€
5	pink	X327.1	250	66,45
5	blue	X328.1	250	66,45
5	white	X329.1	250	66,45
10	pink	X330.1	250	66,45
10	blue	X331.1	250	66,45
10	white	X332.1	250	66,45



Storage boxes, recycled

Lower section is made from recycled plastic, colour variations possible. With transparent PP hinged lid, removable. Temperature-resistant from -80 to +135 °C. Autoclavable.

- 100 slots
- Taller than standard boxes, for tubes up to max. height of 53.5 mm
- For reaction vials from 0.5 to 2 ml
- Alphanumerically labelled lid
- Stackable
- Dimensions: L 140 x W 140 x H 62 mm

Art. No.	Pack Qty.	€
EEC4.1	5	23,15



Test tube racks, recycled

Made from recycled plastic, colour variations possible. Test tube racks with 96 slots, incl. slip lid. Temperature-resistant down to -80 °C.

- Double-sided, with 48 or 96 alphanumerically labelled slots
- 10.5 mm slot Ø for 1.5/2 ml reaction vials
- 7.5 mm slot Ø for 0.5 ml reaction vials
- Large distances between the slots to ensure that screw cap vials can be opened easily

Slots	L x W x H (mm)	Art. No.	Pack Qty.	€
48	215 x 69 x 27	EEC5.1	5	18,25
96	215 x 130 x 27	EEC6.1	5	33,90



Centrifuge tube racks 2 in 1

Double-sided, made of PP, with lid. Handy and compact size of 158 x 79 mm. With 32 holes for 0.5/0.65 ml centrifuge tubes and 8 holes for 1.5/1.7/2 ml vials on one side as well as 32 holes for 1.5/1.7/2 ml vials and 8 holes for 0.5/0.65 ml vials on the other. Hole-Ø 8 or 11 mm. Alphanumerically coded on both sides. Can be stacked. Autoclavable.

Colour	Art. No.	Pack Qty.	€
sortiert (natur, pink, gelb, blau, grün)	EHP2.1	5	72,90

Laboratory Environment



NEU
NOUVEAU
NEW

Universal container

Made of 18/10 stainless steel, extra heavy-duty. Material thickness of 1.0 mm. Items EEX5.1 and EEX6.1 come with handle reinforcement plates.

Delivery incl. lid and three toggle fasteners to secure it in place.

Capacity (l)	Dia. (mm)	Height (mm)	Art. No.	Pack Qty.	€
			EPH2.1	1	790,15



NEU
NOUVEAU
NEW

❄️

Ice box

Made of EPP (polypropylene-based foam).

Highly robust with excellent insulation properties. With recessed hand grips.

Internal dimensions: L 345 x W 345 x H 220 mm.

Delivery incl. lid.

Art. No.	Pack Qty.	€
EET6.1	1	38,50

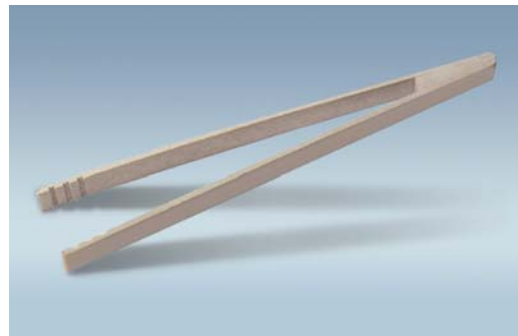


NEU
NOUVEAU
NEW

Transport castors

Made of 18/10 stainless steel. With five rubber castors dia. 100 mm, one of which can be locked. For transporting round containers safely.

For Ø (mm)	Art. No.	Pack Qty.	€
300	EET7.1	1	203,20
350	EET8.1	1	213,95
400	EET9.1	1	245,10
445	EEX0.1	1	320,35
550	EEX1.1	1	375,20

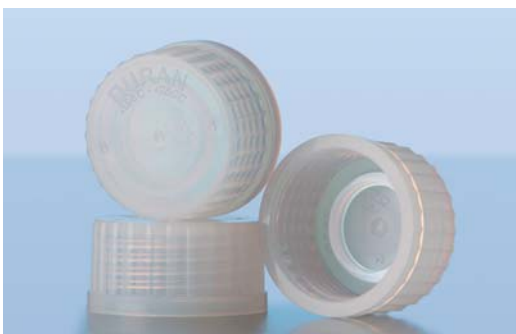


NEU
NOUVEAU
NEW

Long wooden tweezers

Made of untreated beechwood. Suitable for removing samples from liquid nitrogen.

Length (mm)	Width (mm)	Art. No.	Pack Qty.	€
300	20	EET0.1	1	2,70
400	20	EET1.1	1	3,15



NEU
NOUVEAU
NEW

DURAN GROUP



PURE screw caps

Made of PFA; no colour additives or pigments. Features a lip seal. For laboratory bottles with GL 45 thread. Retrace code and batch certificate available.

- Temperature resistance: -196 to +260 °C
- Can be autoclaved and dry-heat sterilised (at 260 °C)
- High chemical resistance
- Comply with FDA 21 CFR V, section 177.1550, and USP class VI

Thread	Ø outside (mm)	Height (mm)	Art. No.	Pack Qty.	€
GL 45	52,0	27,5	EEE3.1	5	64,45



**NEU
NOUVEAU
NEW**

Eyewear cleaning set

Suitable for all spectacle lenses and visors.

- Highly effective cleaning
- Anti-fog and anti-static
- Alcohol-free

Set incl. eyewear cleaner (50 ml) and 1 microfibre cloth (20 x 20 cm).

Art. No.	Pack Qty. (set)	€
EEE0.1	1	9,15

Accessories:

Liquid cleaner in a spray can, 50 ml	EHT4.1	2 Stück	6,40
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**NEU
NOUVEAU
NEW**

SONOREX PR 140 D/DH ultrasonic pipette cleaner

By Bandelin. Ultrasonic pipette cleaner to gently clean volumetric glass or plastic devices up to a length of 755 mm.

- Short cleaning times
- Timer (1, 2, 3, 4, 5, 10, 15, 30 mins or continuous run)
- Particularly robust thanks to the V4A stainless steel tray (1.4571)
- Drop handles for easier transportation
- Ball valve means that it can be emptied quickly and easily
- Model PR 140 DH with optional heating (can be adjusted from 20-80 °C) to increase the cleaning effect, e.g. in the case of grease residue and stubborn soiling

Technical specifications:

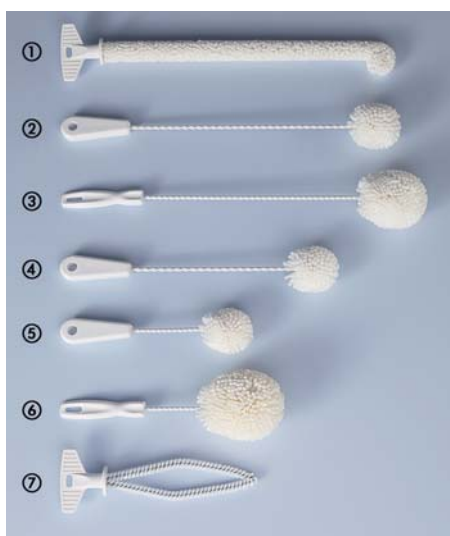
Model	PR 140 D	PR 140 DH
Capacity	Min. 9 to max. 18 l	
Inner dimensions (L x W x H)	150 x 150 x 895 mm (useful depth 850 mm)	
Outer dimensions (L x W x H)	330 x 330 x 1003 mm	
Operating frequency	35 kHz	
Peak ultrasonic output	860 W	
HF power	200 W _{eff}	
Heating output	-	700 W
Weight	19.5 kg	19.7 kg
Power supply	230 V, alternatively 115 V, 50/60 Hz	

Number of pipettes to be cleaned in the pipette basket:
9 mm Ø - approx. 90 pcs; 10.7 mm Ø - approx. 55 pcs; 14 mm Ø - approx. 35 pcs; 20.0 mm Ø - approx. 15 pcs; 29 mm Ø - approx. 10 pcs.

Delivery incl. stainless steel lid and PE pipette basket (inner dimensions: Ø x H 120 x 275 mm).

Type	Art. No.	Pack Qty.	€
Model PR 140 D	ECX9.1 *	1	2999,25
Model PR 140 DH	ECY0.1 *	1	3332,50

* These products may be subject to delivery times. Please consult our Sales department.



**Programme
extension!**

Rotilabo® cleaning brushes

Especially for cleaning laboratory glass and plastic containers. Made of soft, scratch-resistant PE foam. Does not absorb liquids and is considerably more hard-wearing than standard brush materials.

Pliable for vessels with narrow necks

Type	Ø Head (mm)	Length (mm)	Art. No.	Pack Qty.	€
①	20	410	Y111.1	1	12,40

Round head for tall vessels

Type	Ø Head (mm)	Length (mm)	Art. No.	Pack Qty.	€
②	55	425	EEH7.1	1	13,45
③	70	480	Y109.1	1	10,70

Round head for medium-size vessels

Type	Ø Head (mm)	Length (mm)	Art. No.	Pack Qty.	€
④	55	340	EEH8.1	1	12,50

Round head for small vessels

Type	Ø Head (mm)	Length (mm)	Art. No.	Pack Qty.	€
⑤	50	230	EEH9.1	1	11,85
⑥	60	250	Y110.1	1	10,25

Special brush with bristles for cleaning test tubes and particularly narrow vessels. Flexible to adapt to the shape of the vessel.

Type	Ø Head (mm)	Length (mm)	Art. No.	Pack Qty.	€
⑦	20	220	Y112.1	1	7,00



**NEU
NOUVEAU
NEW**

Rotilabo® special brushes

With bristles and PE-foam head. Ergonomically shaped, wide, flat handle for easily twisting the brush. For cleaning laboratory glass and plastic containers. Specially designed for wide-neck barrels, beakers and cylinders.

Type	Ø Head (mm)	Length (mm)	Art. No.	Pack Qty.	€
①	50	385	EEK0.1	1	10,35
②	50	500	EEK1.1	1	11,75

Skin Protection and Care



PROTEXSAN skin cream

Protection against water-soluble and water-miscible substances (e.g. water-mixed oils and cooling lubricants, diluted acids and alkalis, alcohol, washing-up liquids and detergents, disinfectants, salts, and cement) and against free radicals.

- Contains luteolin, co-enzyme Q10 and vitamin E, as well as skin-related lipids
- Does not contain any aluminium salts, preservatives or emulsifiers
- Free from mineral oils, silicone-free, unscented
- Fast-absorbing
- ECARF-certified

Packaging	Art. No.	Pack Qty.	€
50 ml tube	EEE6.1	1	10,55



LINDESA® K non-greasy skin protection cream with chamomile

Oil-in-water emulsion that contains natural beeswax and chamomile. Particularly suitable for working environments where leaving grease marks on surfaces must be avoided, e.g. when painting, in electrical manufacturing or the final inspection. Also suitable for caring for stressed skin. Strengthens the skin's defensive function and prevents skin damage caused by external stresses. Has a normalising effect on irritated skin. Non-greasy, fast-absorbing, scented, silicone-free.

Packaging	Art. No.	Pack Qty.	€
100 ml tube	EEE5.1	1	5,25



Baktolan® lotion pure

Fragrance-free O/W emulsion for normal skin.

- High skin tolerability
- Absorbs quickly without leaving a greasy film
- Significantly increases the skin's moisture

Areas of application:

Can be used on the hands and body. This mild O/W emulsion has been adapted to the skin's physiological characteristics and is especially suited to daily use, as well as applications in which fragrance-free skincare is particularly sought-after.

Packaging	Art. No.	Pack Qty.	€
350 ml bottle	EKH7.1	1	7,00



Programme extension!

LINDESA®-skin protection and skin care cream

Oil-in-water emulsion containing natural beeswax and allantoin for care of the skin. For use in applications involving low stress on the skin or daily work in high humidity environments. Protects against skin damage and soothes irritated skin areas while smoothing and conditioning the skin. Suitable as an afterwork skin care cream or for conditioning stressed skin. Fast-absorbing, low-greasing, silicone-free, beeswax-scented or unscented.

Type	Packaging	Art. No.	Pack Qty.	€
Perfumed	50 ml tube	YY19.1	1	4,00
Perfumed	100 ml tube	YY19.2	1	4,95
Unscented	100 ml tube	EEE4.1	1	6,25



Programme extension!

Skin cream dispensers

Compatible with article no. AH81.2 and 4671.2, all Physiaderm Vario 1000 or 2000 ml bottles.

Delivery incl. mounting material.

VARIOMAT ECO

Made of impact-resistant plastic, with optimal dispensing and efficient emptying.

Dimensions (W x H (incl. lever) x D): 126 x 351 x 130 mm.

Image	Art. No.	Pack Qty.	€
①	YY16.1	1	51,40

VARIOMAT-M STAINLESS STEEL

Brushed stainless steel housing. Absolutely hygienic system since the product does not come into contact with the dispenser.

- Robust design
- Easy to operate and fill
- Optimal dispensing

Dimensions (W x H (incl. lever) x D): 134 x 316 x 128 mm.

Image	Art. No.	Pack Qty.	€
②	EEE7.1	1	91,20



NEU NOUVEAU NEW

Sekuroka®-Solo glove dispenser

Made of premium-quality stainless steel, matt-brushed surface. Can be disinfected with surface disinfectant.

Flexible wall mounting options: Can be mounted vertically or horizontally thanks to the shelf support fitted on one side.

Highly adaptable: On the back of the dispenser is a tab that users can fold over in order to insert boxes of different sizes (between 60 and 90 mm) and secure them firmly in place. Flat boxes will not slip backwards.

Delivery incl. wall fastenings.

Outer dimensions: L x W x H (mm)	Suitable dispenser boxes max. L x W x H (mm)	Art. No.	Pack Qty.	€
250 x 135 x 95	250 x 132 x 90	EHC9.1	1	42,80



NEU NOUVEAU NEW

Suavel® Protec surgical masks

By Meditrade. In accordance with EN 14683 Type II.

- Three-layer disposable facemasks
- With elasticated ear loops
- Premium-quality materials ensure the masks are well tolerated by the skin
- Ultrasonic sealing: No uncomfortable seams or threads coming loose
- Reinforced nose bridge enables optimum adaptation to facial contours
- Latex- and glass fibre-free
- Colour: Green

① Suavel® Protec

Basic model that is extremely comfortable to wear. Bacteria filtration efficiency (BFE) >98%.

② Suavel® Protec Plus

Highly effective and extremely comfortable. Extra-soft padded ear loops make the mask comfortable to wear for extended periods. Bacteria filtration efficiency (BFE) >99%

Image	Type	Art. No.	Pack Qty.	€
①	Suavel® Protec	EHT9.1	50	4,65
②	Suavel® Protec Plus	EHX0.1	50	6,70



NEU NOUVEAU NEW

Beard cover

Made of polypropylene non-woven material, highly breathable and lightweight. With elastic band, latex-free.

Areas of application: Food production, hospitals, biochemistry and in sensitive production environments.

Size (mm)	Colour	Art. No.	Pack Qty.	€
46 x 20	White	EHP3.1	100	8,10

Chemical Resistant Gloves



NEU
NOUVEAU
NEW



Cat. III

NSK26 long nitrile gloves

By SHOWA BEST GLOVE. Comply with EN 420, EN 388 (4111), EN 374. Comply with EEC 1935/2004 – suitable for contact with foodstuffs. Cotton/polyester jersey lining with nitrile outer coating.

- Anatomically shaped hand allows for greater freedom of movement and fatigue-free work
- Extended bonded sleeve, stitched with elasticated border means that it stays correctly adjusted
- Rough finish over entire surface for an effective and durable grip
- Flexible glove with excellent wear resistance
- Absorbs perspiration and can be worn for an extended period with no reduction in comfort
- Protects against oils, hydrocarbons and fats
- Impermeable; for working in a damp or oily environment

Areas of application: Food production, petrochemistry and refinery, working with oils and fats.

Size	Length (mm)	Art. No.	Pack Qty. (pair)	€
8 (S)	620	ECY4.1	1	18,20
9 (M)	630	ECY5.1	1	18,20
10 (L)	640	ECY6.1	1	18,20
11 (XL)	650	ECY7.1	1	18,20

772 long-sleeve nitrile gloves

By SHOWA BEST GLOVE. Comply with EN 420, EN 388 (4111) and EN 374. Cotton/polyester jersey lining, fully coated nitrile rubber outer. The additional coating over the entire hand offers improved protection from chemicals.

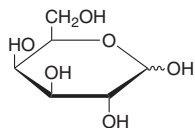
- Anatomically shaped hand
- Extended bonded sleeve, stitched with elasticated edging, means that it stays correctly adjusted
- Rough finish over entire surface for improved sense of touch and better grip
- Flexible, robust and abrasion-resistant
- Absorbs perspiration; comfortable even when worn for extended periods
- Protects against oils, hydrocarbons, fats and abrasion; offers effective, lasting grip
- Eyelet for airing and hanging up
- Colour: Yellow; thickness: Approx. 0.8 mm

Applications: For working in damp or oily environments; for securely taking hold of objects. Petrochemistry and refinery, etc.

Size	Length (mm)	Art. No.	Pack Qty. (pair)	€
8 (M)	650	ECY8.1	1	17,00
9 (L)	650	ECY9.1	1	17,00
10 (XL)	650	EEA0.1	1	17,00

Cellpure®

D(+)-Galactose



D(+)-Galactose

≥99 %, CELLPURE®

For cell culture and biochemistry.

C₆H₁₂O₆

M 180,16 g/mol

mp 166-170 °C

Solubility: 650 g/l (H₂O, 20 °C)

[59-23-4] • EC No. 200-416-4

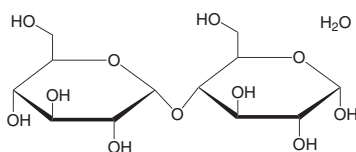
WGK 1

Guarantee analysis:

Endotoxins.....	≤10 E.U./g
Appearance.....	white to off-white powder
Assay (HPLC).....	≥99,0 %
Water.....	≤1,0 %
Specific rotation [α] _D ²⁰ (c=10 in H ₂ O, NH ₃).....	+78,0° to +81,5°
Residue on ignition.....	≤0,1 %
Lead (Pb).....	≤0,00005 %

8878.1	10 g	plastic	24,65 €
8878.2	25 g	plastic	42,90 €
8878.3	50 g	plastic	69,80 €
8878.4	100 g	plastic	113,85 €

D(+)-Maltose monohydrate



D(+)-Maltose monohydrate

≥97 %, CELLPURE®

For cell culture and biochemistry.

Maltobiose

C₁₂H₂₂O₁₁ · H₂O

M 360,32 g/mol

mp ~120 °C (dec.)

Solubility: 1080 g/l (H₂O, 20 °C)

[6363-53-7] • EC No. 200-716-5

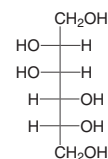
WGK 1

Guarantee analysis:

Endotoxins.....	≤1,0 E.U./g
Appearance.....	white powder
Assay.....	≥97,0 %
pH value (10 % in H ₂ O).....	4,0-5,5
Water (KF).....	4,5-6,5 %
Residue on ignition.....	≤0,05 %
Heavy metals (as Pb).....	≤0,0005 %
Ethanol.....	≤0,1 %
Methanol.....	≤0,05 %

8882.1	25 g	plastic	21,40 €
8882.2	100 g	plastic	48,30 €
8882.3	250 g	plastic	80,55 €
8882.4	500 g	plastic	145,05 €
Original pack 6 x 500 g			137,80/500 g

D(-)-Mannitol



D(-)-Mannitol

≥97 %, CELLPURE®

For cell culture and biochemistry.

D-Mannitol

C₆H₁₄O₆

M 182,18 g/mol

mp 165-170 °C

Solubility: ~213 g/l (H₂O, 20 °C)

[69-65-8] • EC No. 200-711-8

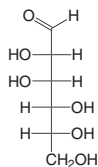
WGK 1

Guarantee analysis:

Endotoxins.....	≤2,5 E.U./g
Appearance.....	white to off-white, cryst. powder
Assay.....	97,0-102,0 %
Loss on drying (4 h, 105 °C).....	≤0,5 %
Melting point.....	165-170 °C
Conductivity.....	≤20 μS/cm
Heavy metals.....	≤0,0005 %
Methanol.....	≤0,01 %
Nickel (Ni).....	≤0,0001 %
Arsenic (As).....	≤0,000015 %

8883.1	100 g	plastic	21,40 €
8883.3	250 g	plastic	42,90 €
8883.2	500 g	plastic	75,15 €
Original pack 6 x 500 g			71,39/500 g

D(+)-Mannose



D(+)-Mannose

≥98 %, **CELLPURE®**

For cell culture and biochemistry.

C₆H₁₂O₆

M 180,16 g/mol

mp ~133 °C

[3458-28-4] • EC No. 222-392-4

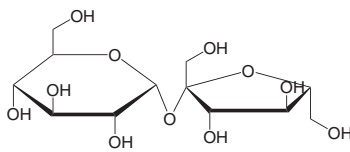
WGK 1

Guarantee analysis:

Endotoxins.....	≤10 E.U./g
Appearance.....	white to off-white, cryst. powder
Assay.....	≥98,0 %
Loss on drying.....	≤0,5 %
Specific rotation [α] _D ²⁰	+13,5° to +14,9°
Residue on ignition.....	≤0,1 %
Chloride (Cl).....	≤0,05 %
Sulphate (SO ₄).....	≤0,05 %
Ethanol.....	≤0,5 %
Methanol.....	≤0,5 %

8887.1	10 g	plastic	23,55 €
8887.2	25 g	plastic	37,55 €
8887.3	50 g	plastic	59,05 €
8887.4	100 g	plastic	91,30 €

D(+)-Saccharose



D(+)-Saccharose

CELLPURE®

For cell culture and biochemistry.

D-Sucrose

C₁₂H₂₂O₁₁

M 342,30 g/mol

mp 185-187 °C

Solubility: ~1970 g/l (H₂O, 15 °C)

[57-50-1] • EC No. 200-334-9

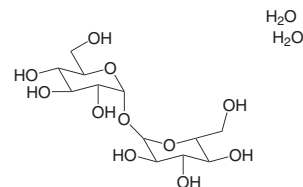
WGK 1

Guarantee analysis:

Endotoxins.....	≤1,5 E.U./g
Appearance.....	white to off-white powder
Loss on drying (3 h, 105 °C).....	≤0,1 %
Specific rotation [α] _D ²⁰ (c=26 in H ₂ O).....	+66,3° to +67,0°
Conductivity.....	≤35 μS/cm
Sulphite (SO ₃).....	≤0,001 %
Ethanol.....	≤0,1 %
Methanol.....	≤0,05 %

8890.1	50 g	plastic	16,05 €
8890.2	100 g	plastic	23,55 €
8890.3	250 g	plastic	42,90 €
8890.4	500 g	plastic	75,90 €
Original pack 6 x 500 g			72,11/500 g

D(+)-Trehalose dihydrate



D(+)-Trehalose dihydrate

≥98 %, **CELLPURE®**

For cell culture and biochemistry.

Mycose

C₁₂H₂₂O₁₁ · 2 H₂O

M 378,24 g/mol

mp 97 °C

[6138-23-4] • EC No. 202-739-6

WGK 1

Guarantee analysis:

Endotoxins.....	≤2,4 E.U./g
Appearance.....	white to off-white, cryst. powder
Assay.....	98,0-101,0 %
pH value (10 % in H ₂ O).....	4,5-6,5
Water (KF).....	9,0-11,0 %
Specific rotation [α] _D ²⁰ (c=10 in H ₂ O).....	+197° to 201°
Residue on ignition.....	≤0,1 %
Chloride (Cl).....	≤0,05 %
Sulphate (SO ₄).....	≤0,05 %
Heavy metals (as Pb).....	≤0,0005 %
Total nitrogen (as N).....	≤0,005 %
Ethanol.....	≤0,5 %
Methanol.....	≤0,5 %

8897.1	10 g	plastic	26,80 €
8897.2	25 g	plastic	45,05 €
8897.3	50 g	plastic	73,00 €
8897.4	100 g	plastic	118,15 €

Heating bath media

Rotitherm® K + H

Rotitherm® K + H

Heat transfer fluid for cooling and heating baths. Aufgrund des niedrigen Stockpunktes kann Rotitherm® K + H auch als Kühflüssigkeit verwendet werden. Can be mixed with water in any ratio. No susceptibility to water hardness. Mischungen mit 10-30 % Wasseranteil sind bis -55 °C einsetzbar. Does not form build-up even when heated and can easily be removed using water.

Modified polyglycol ether

D 1,15 • bp 200 °C

flp >290 °C

WGK 1

Type analysis:

Density (23 °C)	1,13-1,17 g/cm ³
Viscosity (23 °C)	220-280 mm ² /s
Pour point	<-39 °C
Flash point	>290 °C
Autoignition temperature.....	~390 °C
Water.....	<0,5 %

7143.1	1 l	plastic	36,50 €
Original pack 6 x 1 l			34,68/1 l
7143.2	5 l	plastic	133,15 €
Original pack 2 x 5 l			126,49/5 l

Salts

Nitrilotriacetic acid trisodium salt monohydrate

Nitrilotriacetic acid trisodium salt monohydrate

≥99 %, extra pure

Sodium nitrilotriacetate tribasic monohydrate, NTA-3 Na

$C_6H_6NO_6Na_3 \cdot H_2O$

M 275,10 g/mol


D 1,77

mp >340 °C (dec.)

Solubility: 457 g/l (H₂O, 20 °C)

[18662-53-8] • EC No. 225-768-6

WGK 2

 **Warning** H302-H319-H351

Type analysis:

Assay	≥99,0 %
pH (2 % solution)	10,5-11,5
Iron (Fe).....	≤0,001 %
Heavy metals (as Pb)	≤0,001 %
Water.....	6,0-7,0 %

8242.1	100 g	plastic	19,25 €
8242.2	500 g	plastic	53,65 €
Original pack 6 x 500 g			50,97/500 g
8242.3	1 kg	plastic	85,90 €
Original pack 6 x 1 kg			81,61/1 kg
8242.4	2,5 kg	plastic	197,80 €

