

FRITSCH · SIEVE SHAKERS



IDEAL FOR

- SIEVING
- MEASURING THE QUANTITATIVE PARTICLE SIZE DISTRIBUTION OF SOLIDS AND SUSPENSIONS
- SEPARATING
- FRACTIONING

SIEVE SHAKERS

EVERYTHING YOU NEED FOR SIEVING

The FRITSCH sieve range is the focused answer to all typical sieving tasks in the laboratory: three well-conceived instruments for every application, with FRITSCH concepts that make the work simpler and faster – easy to operate, reliable and long-lasting. For dry, wet and micro-precision sieving, with extensive accessories and the free analysis software AUTOSIEVE. Typically FRITSCH!



With FRITSCH, you have chosen an internationally respected manufacturer of application-oriented laboratory instruments. For more than 80 years, laboratories worldwide have relied on our experience, quality,

FRITSCH. ONE STEP AHEAD.

service and innovation – for fast industrial applications as well as for especially accurate results in control- and research laboratories.

See for yourself.



ANALYSETTE 3 SPARTAN

Simple sieving for
all tasks



ANALYSETTE 3 PRO

Precise sieving
with amplitude control



ANALYSETTE 18

Effective sieving
of large quantities

**FRITSCH SIEVE SHAKERS:
CONVENIENT, PRECISE, RELIABLE**

- **Dry, wet and micro-precision sieving**
- **Simple, ergonomic operation**
- **Fast, reproducible results**
- **Sample quantities between 0.05 g and 6 kg**
- **Sieve diameter from 100 mm to 450 mm, mesh widths from 5 µm – 125 mm**
- **Can be used as testing equipment in accordance with DIN EN ISO 9001**
- **Automatic sieve evaluation with the included FRITSCH software AUTOSIEVE**



ANALYSETTE 3 PRO

Precise sieving with automatic amplitude control

The high performance Vibratory Sieve Shaker ANALYSETTE 3 PRO offers everything you need for fast determination of quantitative particle size distribution in the laboratory. As a shaking sieve system with an electromagnetic drive oscillates the sieve stack into regulated vertical oscillations, and is the ideal solution for sieving sample quantities up to 2 kg and a measurement range from 5 µm to 63 mm. The ANALYSETTE 3 PRO is perfectly suited for quality control of incoming and outgoing products, offers user-friendly operation and is low-noise, robust and long-lasting.



NEW: INTELLIGENT WET SIEVING

FRITSCH Advantage The specially developed FRITSCH wet sieving lid with 2 rotation nozzles for an uniform spraying of the material to be sieved from above and by an additional interposed sieving ring above the sieve with the largest amount of finely sieved material.

Your benefit: Improved sieving effect for faster results – and the most efficient wet sieving that has ever existed.



FRITSCH Advantage The unique, warp-free **FRITSCH EASYTWIST sieve stack tensioner** for tensioning the sieve stack with high-quality, steel-reinforced plastic bands. Your benefit: Faster, simpler setup in just a few steps, unobstructed work without annoying rods, lower space requirements and more safety. Particularly beneficial: The tensioning system is already included in the instrument price.

FRITSCH Advantage The included, **FRITSCH software AUTOSIEVE** for automatic evaluation, monitoring and documentation of your sieving results directly via the integrated RS232 interface saves real money. Simply connect a laboratory analysis balance (see ordering data, special accessories) and before and after sieving perform a differential weighing of the sieves. In addition, AUTOSIEVE allows for simple saving and retrieving of the constant empty sieve weights.

**STANDARDS-COMPLIANT FOR INTEGRATION
INTO ISO 9001 QUALITY MANAGEMENT**



ANALYSETTE 3 PRO

Especially simple

The following functions can be conveniently controlled via the keyboard:

Programme selection – You can store up to 9 individual sieve programmes to make your work even easier.

Intermittent mode – For sieving voluminous material with low density to reduce the sieving time.

Micro- and micro-intermittent mode – For micro-sieving of fine materials in the range from 5 µm to 100 µm.

Especially efficient Up to 10 test sieves can be used simultaneously per working cycle – allowing up to 5 sieving operations simultaneously.

Especially practical Even when sieving with a few sieves no additional weights are necessary for the ANALYSETTE 3 PRO.

Especially safe The sieving frequency of the ANALYSETTE 3 PRO is independent of the frequency of the mains to prevent a warming up of the sieving system.

Especially clever All functions can be controlled via a **RS232 interface**. The interface and AUTOSIEVE allow auto-validation of the sieving process via an online comparison of the set and actual amplitude.

FRITSCH Advantage AMPCONTROL for setting constant amplitude, which is automatically monitored and regulated. Your advantage: Guaranteed constant amplitude, meaning precisely reproducible sieving results in accordance with DIN 66165 and the possibility to calibrate and validate your ANALYSETTE 3 PRO as an inspection instrument in inspection of measuring and testing equipment according to ISO 9001.

Especially convenient All important sieving parameters such as sieving time and amplitude are entered directly via the clearly organised soft touchpad with digital display.



ANALYSETTE 3 SPARTAN

Simple sieving for all tasks

The little sister of the ANALYSETTE 3 PRO for all typical sieving tasks in the laboratory with optical adjustment of the amplitude on the running instrument. Complete with the practical FRITSCH sieve stack tensioning system EASYTWIST and the free FRITSCH evaluation software AUTOSIEVE for evaluation of the sieve analysis.



Especially practical Optical display of the amplitude during sieving.

Up to 10 test sieves can be used simultaneously per working cycle – allowing up to 5 sieving operations to be performed at the same time.

FRITSCH Advantage The easy-to-use and time-saving sieve stack tensioner with steel-reinforced plastic bands is included in the instrument price.

The sieving frequency is independent of the frequency of the mains to prevent warming up of the sieving system.

Even when sieving with a few sieves, no additional weights are necessary.

Especially simple Manual adjustment of the amplitude.

Exact entry of the sieving time via a precise digital timer on the ergonomically installed and robust soft touchpad.

ANALYSETTE 3 SPARTAN

TECHNICAL DATA

	ANALYSETTE 3 PRO	ANALYSETTE 3 SPARTAN
Method of analysis	Sieving	Sieving
Dry sieving		
Measuring range	20 µm – 63 mm*	20 µm – 63 mm*
Max. sample quantity (approx.)	for sieves < 63 mm: up to 2 kg* for sieves < 100 µm: up to 100 g*	for sieves < 63 mm: up to 2 kg* for sieves < 100 µm: up to 100 g*
Sieving time (approx.)	3 – 20 min*	3 – 20 min*
Wet sieving		
Measuring range	20 µm – 10 mm	20 µm – 10 mm
Max. sample quantity (approx.)	20 – 100 g*	20 – 100 g*
Sieving time (approx.)	3 – 10 min*	3 – 10 min*
Micro-precision sieving		
Measuring range	5 µm – 100 µm	
Max. sample quantity (approx.)	0.05 – 0.5 g*	
Sieving time (approx.)	30 – 60 min*	
Max. weight of sieve stack	3 kg	3 kg
Amplitude	0 – 3 mm	0 – 3 mm
Amplitude control	automatic	manual
Sieve diameters	100 mm, 200 mm or 8"	100 mm, 200 mm or 8"
Max. number of sieves per sieve stack	10 (50 mm height) or 16 (25 mm height)	10 (50 mm height) or 16 (25 mm height)
Max. height of sieve stack	550 mm	550 mm
Control and evaluation programme		
AUTOSIEVE	Yes	Yes
Testing instrument calibration according to ISO 9001	Yes	No
Interfaces	Yes	No
Intermittent mode	Yes	No
Memory for 9 parameter combinations	Yes	No
Convertible to		
Vibratory Micro Mill PULVERISETTE 0	Yes	Yes
Electrical details	100-240 V/1~, 50-60 Hz, 50 watt	100-240 V/1~, 50-60 Hz, 50 watt
Weight		
Net/gross	21 kg / 22 kg	21 kg / 22 kg
Dimensions w x d x h		
Bench top instrument	37 x 40 x 20 cm	37 x 40 x 20 cm
Packing details w x d x h		
Cardboard box	50 x 43 x 30 cm	50 x 43 x 30 cm
Emissions value of workplace according to IEC 61672-1 (depending on the material to be sieved and instrument configuration)	approx. 63 dB(A)	approx. 63 dB(A)
Order no.	03.7020.00	03.8020.00
*Depending on the material to be sieved and the sieves used		

YOUR SIEVE SHAKER BECOMES A MILL

FRITSCH Advantage With just a few motions, your Sieve Shaker can be transformed into the Vibratory Micro Mill PULVERISETTE 0 for grinding and homogenising small sample quantities (filling volume 1 to 10 ml, feed particle size < 5 mm). And with the special FRITSCH cryo-box, grinding is even possible at low temperatures. The ANALYSETTE 3 SPARTAN enables stable, uniform vibration in connection with the grinding set – the perfect milling solution!

The corresponding accessories can be found in the leaflet Ball Mills or at www.fritsch.de.



PULVERISETTE 0 Vibratory Micro Mill





ACCESSORIES ANALYSETTE 3



Sieves

For dry and wet sieving with mesh widths from 20 μm to 63 mm. All are especially light, robust and manufactured in high quality. Highly alloyed stainless steel protects against corrosion and simplifies cleaning. Groove-free mesh transitions prevent contamination of the sieving material. Available in accordance with ISO 3310-1 or ASTM E-11-1995 in the diameters 200 mm (height 50 mm or 25 mm), 100 mm (height 40 mm) or 8" (height 2"). Every sieve is laser-engraved, optically measured and delivered with a compliance certificate.

FRITSCH Micro-Precision Sieves

Available only from FRITSCH: With the micro-precision sieves, the ANALYSETTE 3 PRO is suitable for wet-sieving of fine materials from 5 μm to 100 μm and for dry sieving of the smallest sample quantities from 0.05 – 0.5 g. The micro-precision sieves of pure nickel feature a large, open sieving surface. Blockages are reliably prevented by the etched-in holes that widen toward the bottom. The matching clamping set, sieve clamping lid, sieve pan, sieve spacer and fast locking clamp along with the large sieve surface permit efficient sieving.

Sieve clamping lid, sieve pans and interposed sieve pans for dry sieving

For observation of the sieving process, sieve clamping lids made of plexiglas are available for FRITSCH test sieves of 100 mm or 200 mm/8" diameter. You also receive a clamping lid made of polyamide (without window) to sieve materials for which metallic contamination must be avoided. Of course, we also offer corresponding sieve pans and sieves made of plastic. Sieve pans and interposed sieve pans for multiple sieving operations in a single process are available in stainless steel for all sieve sizes.

CERTIFICATES

For certification of the ANALYSETTE 3 PRO as an inspection instrument, a 3.1 EN 10204 inspection certificate as well as a form for IQ/OQ documentation are available. A 3.1 EN 10204 inspection certificate is also offered for FRITSCH test sieves in accordance with ISO 3310-1.

Of course, we would also be happy to recertify your Vibratory Sieve Shaker ANALYSETTE 3 PRO and FRITSCH test sieves according to ISO 3310-1 at our headquarters in Idar-Oberstein or directly at your location.



Sieve clamping lid, interposed sieve rings and sieve pans for wet sieving

Only available from FRITSCH: During wet sieving with test sieves (200 mm/ 8"), the practical clamping lid with 2 rotation nozzles ensures an uniform spraying of the sieving material and an optimal sieving effect. Special interposed sieving rings with three nozzles are available for simultaneous spraying of the top and bottom sieves. A sieve clamping lid of plexiglas with 1 nozzle is also offered for wet sieving with 100 mm test sieves. The corresponding sieve pans with outlet are available for all sieve sizes.

Universal sieve tensioning system TorqueMaster

For precise results: The electrically tensioned and easy-to-operate FRITSCH TorqueMaster applies constant and reproducible tensioning forces to the sieve stack through precisely controlled fastening of the sieve clamping lid. Essential when using the ANALYSETTE 3 PRO as inspection instrument according to ISO 9001.

Sieving aids

For dry sieving of materials with a high share of fine particles, 10 mm agate balls should be used as aids for medium and large sieves or 5 mm agate balls or 20 mm rubber balls for fine sieves. Your advantage: They prevent clogging of the sieve mesh.



Gentle cleaning: LABORETTE 17

Clean the sensitive test sieves and micro-precision sieves intensively and gently with the FRITSCH Ultrasonic Cleaners LABORETTE 17. This allows you to avoid undesired contamination and extend the service life of the sieves. Two volume sizes are available: 5.6 l or 28 l.

More information at www.fritsch.de



ANALYSETTE 18

Effective sieving of large quantities

The ANALYSETTE 18 is the robust, Heavy Duty Analytical Sieve Shaker from FRITSCH. It can effortlessly sieve up to 6 kg of material between 20 µm and 125 mm. During sieving, two maintenance-free unbalance motors move the sieve stack horizontally and vertically at the same time: For high separation efficiency and short sieving times.



FRITSCH Advantage Universal support plate for sieves with diameters of 200, 300, 315, 350, 400 and 450 mm as well as 8, 12, 16 or 18". Sieves with mesh width from 20 µm to 125 mm in accordance with ISO 3310-1 and ASTM E-11-1995 are available.

For sieving of fine-grained materials, the use of for example vulkollan cubes are recommended.



Especially convenient With the removable operating unit of the ANALYSETTE 18, the instrument can also be operated by remote control.

TECHNICAL DATA

ANALYSETTE 18	
Method of analysis	Sieving
Dry sieving	
Measuring range	20 µm – 125 mm*
Max. sample quantity (approx.)	6 kg*
Sieving time (approx.)	5 – 60 min*
Max. weight of sieve stack	25 kg
Amplitude	1.8 mm
Amplitude control	Fixed
Sieve diameters	200 mm, 300 mm, 315 mm, 350 mm, 400 mm and 8", 12", 16", 18"
Max. number of sieves per sieve stack	7 (65 mm height)
Max. height of sieve stack	520 mm
Control and evaluation programme	
AUTOSIEVE	Yes
Testing instrument calibration according to ISO 9001	No
Interfaces	No
Intermittent mode	No
Storage of parameter combinations	No
Convertible to	
Vibratory Micro Mill PULVERISETTE 0	No

ANALYSETTE 18	
Electrical details	230 V/1~, 50 Hz, 480 watt 115 V/1~, 60 Hz, 20 watt
Weight	
Net/gross	92 kg / 129 kg
Dimensions w x d x h	
Floor instrument	58 x 58 x 39 cm
Packing details w x d x h	
Wooden case	76 x 76 x 76 cm
Emissions value of workplace according to IEC 61672-1	
(depending on the material to be sieved and instrument configuration)	approx. 65 dB(A)
Order no.	230 V/1~, 50 Hz 115 V/1~, 60 Hz 18.2020.00 18.2010.00

* Depending on the material to be sieved and the sieves used



Especially practical and safe The quick fasteners for sieves and sieve clamping lid ensure constant tensioning pressure, safety and stability. Rods for tensioning in two lengths are included in the instrument price.

Especially efficient Up to 7 test sieves (65 mm height) with sieve pans and lid can be used per working cycle.

FRITSCH Advantage The free-of-charge **FRITSCH software AUTOSIEVE** is included for automatic evaluation of your sieving results. Simply connect a balance to the computer and successively weigh the entire sieve stack.

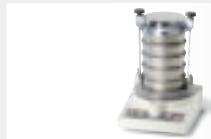
ANALYSETTE 18

ORDERING DATA

Order no. Article

VIBRATORY SIEVE SHAKER

ANALYSETTE 3 PRO + SPARTAN



Instrument without clamping lid, test sieves and sieve pan, incl. control and evaluation programme AUTOSIEVE for Windows™
 Model **PRO**, for 100-240 V/1~, 50-60 Hz
 Model **SPARTAN**, for 100-240 V/1~, 50-60 Hz

03.7020.00
03.8020.00**Accessories for dry sieving**

- 31.2020.00 Clamping lid plexiglas for test sieves 200 mm/8" dia.
 31.2050.00 Clamping lid polyamide (without window) for all test sieves up to 200 mm/8" dia.
 31.2100.00 Sieve tensioning system TorqueMaster (consisting of clamping lid plexiglas for test sieves 200 mm/8" dia. and electrical tool 230 V/1~, 50 Hz)
 31.2115.00 Sieve tensioning system TorqueMaster (consisting of clamping lid plexiglas for test sieves 200 mm/8" dia. and electrical tool 100-120 V/1~, 60 Hz)
 31.2010.00 Clamping lid plexiglas for test sieves 100 mm dia.
 31.1300.03 Interposed sieve pan made of stainless steel 200 mm dia., 50 mm height
 31.1320.03 Interposed sieve pan made of stainless steel 8" dia., 2" height
 31.1000.03 Sieve pan made of stainless steel 200 mm dia., 50 mm height
 31.1020.03 Sieve pan made of stainless steel 8" dia., 2" height
 31.1040.03 Sieve pan made of stainless steel 100 mm dia., 40 mm height

Accessories for wet sieving

- 31.0400.00 Clamping lid plexiglas with 2 rotation nozzles for test sieves 200 mm/8" dia.
 31.1100.03 Sieve pan made of stainless steel with outlet 200 mm dia., 50 mm height
 31.0240.00 Interposed sieving ring with 3 nozzles for test sieves 200 mm dia.
 31.1120.03 Sieve pan made of stainless steel with outlet 8" dia., 2" height
 31.0250.00 Interposed sieving ring with 3 nozzles for test sieves 8" dia.
 31.2040.00 Clamping lid plexiglas with 1 nozzle for test sieves 100 mm dia.
 31.1140.00 Sieve pan made of stainless steel with outlet 100 mm dia., 40 mm height

Accessories for micro-precision sieving

- (Only possible with ANALYSETTE 3 PRO)
 33.1200.00 Clamping set for micro-precision sieves 100 mm dia. (= 3 screws + clamps, without clamping lid, sieve pan and micro-precision sieves)
 33.1050.00 Clamping lid aluminium/plexiglas with 1 nozzle
 33.1150.00 Funnel (sieve pan) of aluminium with outlet
 33.1000.00 Sieve spacer made of aluminium with 2 seal rings
 33.1100.00 Fast locking clamp made of stainless steel (See ordering example page 13)

Certification

- 96.0010.00 Inspection certificate 3.1 EN 10204 for FRITSCH Sieve Shaker ANALYSETTE 3 PRO
 96.0200.00 IQ/OQ documentation (questionnaire format - for filling out by customer) for FRITSCH Sieve Shaker ANALYSETTE 3 PRO
 31.0900.00 Inspection certificate 3.1 EN 10204 for FRITSCH test sieves according to ISO 3310-1

Sieving aids

- 55.0050.05 Agate ball 5 mm dia. (15 pcs. per sieve)
 55.0100.05 Agate ball 10 mm dia. (10 pcs. per sieve)
 31.0180.15 Rubber ball 20 mm dia. (5 pcs. per sieve)

Sieve covers

- 31.1200.03 Sieve cover made of stainless steel for test sieves 200 mm dia.
 31.1220.03 Sieve cover made of stainless steel for test sieves 8" dia.
 31.1240.03 Sieve cover made of stainless steel for test sieves 100 mm dia.

Replacement seal rings

- 31.0010.16 Replacement seal ring NBR for test sieves 200 mm/8" dia., 50 mm/2" height, 200 mm dia., 25 mm height
 31.0520.16 Replacement seal ring NBR for test sieves 100 mm dia.
 84.0230.15 Replacement seal ring NBR (2 each for 33.1000.00)

Sieve pans made of stainless steel with and without outlet are also available in 200 mm dia., 25 mm height and 8" dia., 1" height.

Order no. Article

SPECIAL ACCESSORIES

ANALYSETTE 3 PRO + SPARTAN

Accessories for automatic evaluation of sieve analysis

Free-of-charge control and evaluation software AUTOSIEVE for Windows™ included with each Sieve Shaker.

This requires a special laboratory analysis balance, which you can order at the same time.

- 03.2600.00 Laboratory analysis balance, up to 4.1 kg (\pm 0.01 g) with RS232 interface, incl. computer connection cable

Accessories for grinding and homogenising small sample quantities

- 31.2010.00 Grinding head for conversion to Vibratory Micro Mill PULVERISETTE 0
 Request a detailed Ball Mills leaflet with information on the Vibratory Micro Mill PULVERISETTE 0 as well as mortars and balls.

Accessories for gentle cleaning of test sieves and micro-precision sieves

For gentle cleaning of the test sieves and micro-precision sieves, we recommend the FRITSCH Ultrasonic Cleaners LABORETTE 17. More information can be found at www.fritsch.de.

Recertification of the Vibratory Sieve Shaker ANALYSETTE 3 PRO and FRITSCH test sieves according to ISO 3310-1 on request.

Computer, colour ink jet printer and laser printer on request.

ORDERING DATA

Order no. Article

TEST SIEVES

ANALYSETTE 3 PRO + SPARTAN
 Frame and mesh wire made of stainless steel
 with compliance certificate
 100 mm/200 mm/8" dia.



ISO 3310-1 • Mesh width • mm/µm		ASTM • E-11-1995 • mesh	
Order no.	200 mm dia., 50 mm height	Order no.	200 mm dia., 50 mm height
30.0000.03	63• mm		
30.0080.03	45• mm		
30.0100.03	31.5• mm		
30.0200.03	25 mm	35.0200.03	1" = 25 mm
30.0300.03	22.4• mm	35.0300.03	7/8" = 22.4 mm
30.0400.03	20 mm		
30.0600.03	18 mm	35.0600.03	3/4" = 19 mm
30.0800.03	16• mm	35.0800.03	5/8" = 16 mm
30.0900.03	14 mm	35.0900.03	0.53" = 13.2 mm
30.1000.03	12.5 mm	35.1000.03	1/2" = 12.5 mm
30.1100.03	11.2• mm	35.1100.03	7/16" = 11.2 mm
30.1200.03	10 mm	35.1200.03	3/8" = 9.5 mm
30.1300.03	9 mm		
30.1400.03	8• mm	35.1400.03	5/16" = 8 mm
30.1500.03	7.1 mm	35.1500.03	0.265" = 6.7 mm
30.1600.03	6.3 mm	35.1600.03	1/4" = 6.3 mm
30.1700.03	5.6• mm	35.1700.03	3/2" = 5.6 mm
30.1800.03	5 mm	35.1800.03	4 = 4.75 mm
30.1900.03	4.5 mm		
30.2000.03	4• mm	35.2000.03	5 = 4 mm
30.2100.03	3.55 mm	35.2100.03	6 = 3.35 mm
30.2200.03	3.15 mm		
30.2300.03	2.8• mm	35.2300.03	7 = 2.8 mm
30.2400.03	2.5 mm	35.2400.03	8 = 2.36 mm
30.2500.03	2.24 mm		
30.2600.03	2• mm	35.2600.03	10 = 2 mm
30.2700.03	1.8 mm		
30.2800.03	1.6 mm	35.2800.03	12 = 1.7 mm
30.2900.03	1.4• mm	35.2900.03	14 = 1.4 mm
30.3000.03	1.25 mm	35.3000.03	16 = 1.18 mm
30.3100.03	1.12 mm		
30.3200.03	1• mm	35.3200.03	18 = 1 mm
30.3300.03	900 µm		
30.3400.03	800 µm	35.3400.03	20 = 850 µm
30.3500.03	710• µm	35.3500.03	25 = 710 µm
30.3600.03	630 µm	35.3600.03	30 = 600 µm
30.3700.03	560 µm		
30.3800.03	500• µm	35.3800.03	35 = 500 µm
30.3900.03	450 µm		
30.4000.03	400 µm	35.4000.03	40 = 425 µm
30.4100.03	355• µm	35.4100.03	45 = 355 µm
30.4200.03	315 µm	35.4200.03	50 = 300 µm
30.4300.03	280 µm		
30.4400.03	250• µm	35.4400.03	60 = 250 µm
30.4500.03	224 µm		
30.4600.03	200 µm	35.4600.03	70 = 212 µm
30.4700.03	180• µm	35.4700.03	80 = 180 µm
30.4800.03	160 µm	35.4800.03	100 = 150 µm
30.4900.03	140 µm		
30.5000.03	125• µm	35.5000.03	120 = 125 µm
30.5100.03	112 µm		
30.5200.03	100 µm	35.5200.03	140 = 106 µm
30.5400.03	90• µm	35.5400.03	170 = 90 µm
30.5600.03	80 µm		
30.5800.03	71 µm	35.5800.03	200 = 75 µm
30.6000.03	63• µm	35.6000.03	230 = 63 µm
30.6200.03	56 µm	35.6200.03	270 = 53 µm
30.6400.03	50 µm		
30.6600.03	45• µm	35.6600.03	325 = 45 µm
30.6800.03	40 µm		
30.7000.03	36 µm	35.7000.03	400 = 38 µm
30.7200.03	32• µm	35.7200.03	450 = 32 µm
30.7600.03	25• µm	35.7600.03	500 = 25 µm
30.7800.03	20• µm	35.7800.03	635 = 20 µm

• ISO 565 R20/3 (main sizes)

If you would like a test sieve in other diameters, please take note of the **ordering examples** to the right.

Recertification of FRITSCHE test sieves according to ISO 3310-1 on request.

Ordering example for test sieves in other diameters

200 mm dia., 50 mm height,
200 mm dia., 25 mm height,
8" dia., 2" height,
100 mm dia., 40 mm height

	Deviation from standard sieve size	ISO 3310-1 mesh width mm/µm	ASTM E-11-1995 mesh
Test sieve 5 mm mesh width, 200 mm dia., height 50 mm = standard size		For example 30.1800.03	For example 35.1800.03
Test sieve 5 mm mesh width, 200 mm dia., height 25 mm	Replace 5 th position = "0" in the order no. by "1"	For example 30.1810.03	For example 35.1810.03
Test sieve 5 mm mesh width, 8" dia., height 2"	Replace 5 th position = "0" in the order no. by "2"	For example 30.1820.03	For example 35.1820.03
Test sieve 5 mm mesh width, 100 mm dia., height 40 mm	Replace 5 th position = "0" in the order no. by "4"	For example 30.1840.03	For example 35.1840.03

Test sieves and sieving accessories in other diameters and mesh widths on request.
 Test sieves made of polyamide are available on request.

Test sieves and sieving accessories can not be exchanged or returned!

MICRO-PRECISION SIEVES

ANALYSETTE 3 PRO

Frame made of stainless steel, sieve foil and grid made of pure nickel,
 100 mm dia., according to ISO 3310-3



Order no.	Aperture width µm	Open sieve area = %	mesh = number of holes per linear inch
32.0050.00	Aperture width 5 µm	2.8	1016
32.0100.00	Aperture with 10 µm	11.2	1016
32.0150.00	Aperture with 15 µm	9.8	570
32.0200.00	Aperture with 20 µm	17.5	570
32.0250.00	Aperture with 25 µm	10.4	403
32.0300.00	Aperture with 30 µm	14.9	403
32.0350.00	Aperture with 35 µm	12.6	317
32.0400.00	Aperture with 40 µm	16.5	317
32.0450.00	Aperture with 45 µm	8.5	203
32.0500.00	Aperture with 50 µm	10.5	203
32.0600.00	Aperture with 60 µm	9.3	159
32.0700.00	Aperture with 70 µm	12.6	159
32.0800.00	Aperture with 80 µm	16.5	159
32.0900.00	Aperture with 90 µm	20.9	159
32.1000.00	Aperture with 100 µm	25.7	159

Ordering example for micro-precision sieves

Example of an order for a sieve stack with 4 micro-precision sieves:

- 4 micro-precision sieves of choice
 - 1 clamping lid, aluminium/plexiglas with 1 nozzle (order no. 33.1050.00)
 - 1 funnel (sieve pan) made of aluminium with outlet (order no. 33.1150.00)
 - 5 sieve spacers made of aluminium with 2 seal rings (order no. 33.1000.00)
 - 6 fast locking clamps made of stainless steel (order no. 33.1100.00)
 - clamping set for micro-precision sieves with micro precision sieves with 100 mm dia.
- Please note: one sieve spacer and two locking clamps more than the number of sieves must be ordered.

Order no. Article

HEAVY DUTY ANALYTICAL SIEVE SHAKER

ANALYSETTE 18



Instrument without test sieves and sieve pan, incl. tensioning, sieve cover and control and evaluation programme AUTOSIEVE for Windows™

18.2020.00 for 230 V/1~, 50 Hz
18.2010.00 for 115 V/1~, 60 Hz

Accessories for test sieves 400 mm dia.

37.1000.01 Sieve pan
37.0010.16 Replacement seal ring NBR for test sieves 400 mm dia.

Sieving aids

37.0200.16 1 vulkollan cube (10 cubes per sieve)

Accessories for automatic evaluation of sieve analysis

The Heavy Duty Analytical Sieve Shaker ANALYSETTE 18 is delivered with the free-of-charge control and evaluation software AUTOSIEVE for Windows™.

Laboratory analysis balance, computer, colour ink jet printer and laser printer on request.

Order no. Article

TEST SIEVES

ANALYSETTE 18

Frame and mesh wire made of stainless steel with compliance certificate 400 mm dia., useful height 65 mm



Order no. ISO 3310-1	Mesh width mm/µm	ASTM • E-11-1995 mesh
34.0040.02	125• mm	
34.0050.02	100 mm	
34.0060.02	90• mm	
34.0000.02	63• mm	
34.0080.02	45• mm	
34.0100.02	31.5• mm	
34.0200.02	25 mm	△ 1" = 25 mm
34.0300.02	22.4• mm	△ 7/8" = 22.4 mm
34.0400.02	20 mm	
34.0600.02	18 mm	~ 3/4" = 19 mm
34.0800.02	16• mm	△ 5/8" = 16 mm
34.0900.02	14 mm	~ 0.53" = 13.2 mm
34.1000.02	12.5 mm	~ 1/2" = 12.5 mm
34.1100.02	11.2• mm	△ 7/16" = 11.2 mm
34.1200.02	10 mm	~ 3/8" = 9.5 mm
34.1300.02	9 mm	
34.1400.02	8• mm	△ 5/16" = 8 mm
34.1500.02	7.1 mm	~ 0.265" = 6.7 mm
34.1600.02	6.3 mm	△ 1/4" = 6.3 mm
34.1700.02	5.6• mm	~ no. 31/2 = 5.6 mm
34.1800.02	5 mm	~ no. 4 = 4.75 mm
34.2000.02	4• mm	△ no. 5 = 4 mm
34.2100.02	3.55 mm	△ no. 6 = 3.35 mm
34.2200.02	3.15 mm	
34.2300.02	2.8• mm	△ no. 7 = 2.8 mm
34.2400.02	2.5 mm	~ no. 8 = 2.36 mm
34.2600.02	2• mm	△ no. 10 = 2 mm
34.2700.02	1.8 mm	
34.2800.02	1.6 mm	~ no. 12 = 1.7 mm
34.2900.02	1.4• mm	△ no. 14 = 1.4 mm
34.3000.02	1.25 mm	~ no. 16 = 1.18 mm
34.3100.02	1.12 mm	
34.3200.02	1• mm	△ no. 18 = 1 mm
34.3300.02	900 µm	
34.3400.02	800 µm	~ no. 20 = 0.85 mm
34.3500.02	710• µm	△ no. 25 = 0.71 mm
34.3600.02	630 µm	~ no. 30 = 0.6 mm
34.3700.02	560 µm	
34.3800.02	500• µm	△ no. 35 = 0.5 mm
34.3900.02	450 µm	
34.4000.02	400 µm	~ no. 40 = 0.425 mm
34.4100.02	355• µm	△ no. 45 = 0.355 mm
34.4200.02	315 µm	~ no. 50 = 0.3 mm
34.4300.02	280 µm	
34.4400.02	250• µm	△ no. 60 = 0.25 mm
34.4500.02	224 µm	
34.4600.02	200 µm	~ no. 70 = 0.212 mm
34.4700.02	180• µm	△ no. 80 = 0.18 mm
34.4800.02	160 µm	~ no. 100 = 0.15 mm
34.4900.02	140 µm	
34.5000.02	125• µm	△ no. 120 = 0.125 mm
34.5100.02	112 µm	
34.5200.02	100 µm	~ no. 140 = 0.106 mm
34.5400.02	90• µm	△ no. 170 = 0.09 mm
34.5600.02	80 µm	
34.5800.02	71 µm	~ no. 200 = 0.075 mm
34.6000.02	63• µm	△ no. 230 = 0.063 mm

• ISO (standard international)

When ordering test sieves, please quote if the sieves should be delivered according to ISO 3310-1 or ASTM.

Test sieves and sieving accessories in other diameters and mesh widths on request.

All above mentioned mesh widths are also available as test sieves with 200 mm/8" dia.

Test sieves and sieving accessories are not subject to exchange!



FRITSCH contact!

Yet another key advantage of FRITSCH: Personal consultation and comprehensive service from our experts – practically anywhere in the world.

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FRITSCH Laser-Particle Sizing

Particle size determination via laser diffraction and dynamic light scattering are important methods for the measurement of particle size distributions in the nanometer range up to several millimeters. These methods are characterised by short measuring times, reproducible results and extensive analysis possibilities.

ANALYSETTE 12

DynaSizer

⊙ Dynamic light scattering



ANALYSETTE 22

MicroTec plus and NanoTec plus

⊙ Static light scattering



DynaSizer (0.001 – 6 µm)

MicroTec plus (0.08 – 2000 µm)

NanoTec plus (0.01 – 2000 µm)



Our laser expert, Dr. Günther Crolly, would be happy to advise you!

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