

04

SPECIALITIES

SPECIMEN COLLECTION PAPER

HEPA/ULPA AIR FILTER MEDIA

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CELLULOSE STOPPER

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LENS CLEANING TISSUE

SMELLING TEST PAPER

GERMINATION TEST PAPER

ACTIVATED CARBON PAPER



SPECIALITIES

4.1 SPECIMEN COLLECTION PAPER

CHM® SCP Specimen collection paper

SCP specimen collection paper from CHM® is manufactured from high-quality cellulose paper fiber (100% pure cotton linters) without additives. It is used for blood sample collection and newborn screening. The cards are customized by the requirements of the healthcare professionals to standardize sample obtained from multiple sources. All the special designs, printing, etc... are tailor-made for each customer to fulfil all necessary specifications and components for efficient sample collection.

SCP grade comply with Clinical and Laboratory Standards Institute (CLSI) LA4-A5 standard (blood collection on filter paper for newborn screening - 5th Edition).



Features:

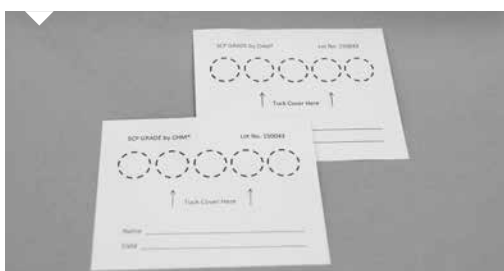
- Untreated filter paper. No impregnated chemicals to interfere with analysis.
- Body fluids and blood spots dry within two hours.
- They can be designed and printed in some different formats: single-part card, two-part card, multi-part card and frame cassette card

Applications:

- For micro-volume samples (blood and body fluids)
- Sample carrier of DNA extractions

TECHNICAL SPECIFICATIONS

PARAMETER	VALUE
Basis weight (g/m ²)	180
Thickness (mm)	0,5
Absorptive height longitudinal (mm/10min)	170
Ash content (%)	<0.1



4.2 HEPA/ULPA AIR FILTER MEDIA

HEPA filter is an acronym for High-Efficiency Particulate Arrestance, and it is a type of air filter.

They are composed of a mat of randomly arranged fibres. The fibres are typically composed of fiberglass and possess diameters between 0.5 and 2.0 μm . HEPA filters are designed to screen particles larger than 0.3 μm with an efficiency of 99.95%, but they do not filter out gasses and odor molecules.

It works by forcing air through a fine mesh that traps harmful particles such as pollen, pet dander, dust mites, and tobacco smoke.

ULPA is an acronym for Ultra-Low Particulate Air. An ULPA filter can remove from the air at least 99.9999% for 0.12 μm or larger particles.

ULPA filters are closely related to HEPA filters but are even more efficient. These filters are used in air filtration and purification systems to control airborne particulate levels and to stop the spread of toxic agents and infectious diseases. They can remove dust, pollen, mold, bacteria and any airborne particles from 0.12 μm .

CHMLAB manufactures media in all efficiency ranges of interest to the cleanroom industry – efficiencies from 99.95% to 99.9999% for 0.12 μm particle size. CHMLAB air filters are produced on a paper machine especially designed for the processing of micro-glass fibres. Only high-purity borosilicate glass fibres are employed, in thicknesses ranging from 0.2 to 2.0 μm , depending on the required level of efficiency.

These products are then converted into a variety of shapes and configurations to suit a multitude of industrial, medical, electronics and personal protection applications.

Applications:

HEPA and ULPA filters are used in applications requiring very efficient filtering of airborne pathogens that can cause aggravate asthma and cause allergies or disease. These filters are also useful in manufacturing environments that require very clean air. Some applications include:

- Air pollution
- Biological safety cabinets
- Pharmaceutical
- Surgical/Operating room air purification
- Clinical/healthcare facility air purification
- Vacuum cleaning systems
- Critical product manufacture
- Hazardous material collection
- Biotechnology
- Food processing
- Airline cabin air purifiers

Particle removal efficiencies are closely monitored for each grade enabling the customer to make better decisions in selecting media for your specific HEPA/ULPA application.

The test stand measures particle sizes from 0.05 to 0.5 μm with extreme accuracy.

CHMLAB can also supply specially engineered grades. If your requirements do not meet with our standard grades, please contact us directly as we are able to develop proprietary grades that meet your unique filtration requirements.

GRADE	HE120	HE235	HE265	HE295	HE325	HE355	HE450	HE500
Basis weight (g/m ²)	75	75	75	75	75	75	75	75
Thickness (mm)	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Density (kg/m ³)	215	215	215	215	215	215	215	215
Tensile strength (N/m) MD	800	800	800	800	800	800	800	800
Tensile strength (N/m) CD	700	700	700	700	700	700	700	700
Tensile stiffness MD (kN/m)	160	180	180	180	180	180	180	180
Pressure drop (Pa 5.3 cm/s)	120	235	265	295	325	355	450	500
Penetration (%)	5*	0.5*	0.05*	0.3**	0.2**	0.1**	0.005*	0.0005*
Water repellency (s)	>60	>60	>60	>60	>60	>60	>60	>60
Combustible material (%)	6	6	6	6	6	6	6	6
Filter Class	H11	H12	H13	-	-	-	H14	H15

(*) Air flow velocity 2 cm/s

(**) Air flow velocity 15 cm/s MPPS

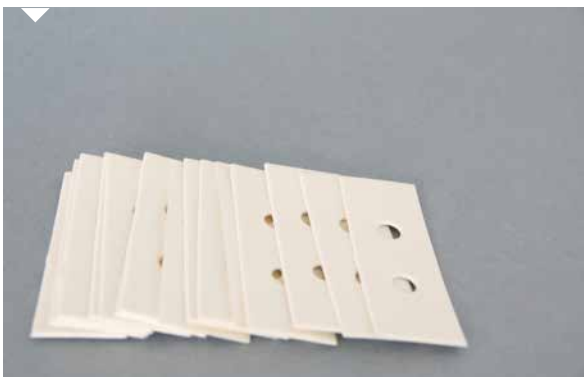


4.3 PAPER FOR CYTOLOGICAL ANALYSIS

E1240 Grade. This grade is made of filter board to absorb the excess liquid from the staining of the samples in cytological analysis. For single and multiple chambers.

TECHNICAL SPECIFICATIONS	
PARAMETER	VALUE
Basis weight (g/m ²)	420

ORDER INFORMATION			
ORDER NUMBER	DIMENSIONS (mm)	HOLES	QUANTITY/BOX
E1240-2575D	25x75	2	200
E1240-2575D-1	25x75	1	200
E1240-2864D	28x64	2	200



4.4 CELLULOSE STOPPER

CHM® Biostopper. Cellulose stopper

Biostopper have been proved as an excellent sealing for microbiological samples and tissue cultures in test tubes and Erlenmeyer flasks. They fit perfectly into the mouth of the container.

Features:

- Sterilization up to 200 °C
- Air permeable
- Disposable

ORDER INFORMATION			
ORDER NUMBER	DESCRIPTION	GLASS INTERNAL Ø (mm)	QUANTITY/BOX
CHM® Biostopper. Cellulose Stopper			
E1011-0400	Biostopper No.4	6,5-7	5000
E1011-0502	Biostopper No.5s	5,5-6,5	5000
E1011-0503	Biostopper No.5sk	4,5-6,5	5000
E1011-0604	Biostopper No.6F	6,5-7,5	5000
E1011-0700	Biostopper No.7	8,5-9,5	2000
E1011-0715	Biostopper No.7d	7,5-8,5	4000
E1011-0800	Biostopper No.8	9,5	2000
E1011-0801	Biostopper No.8P	7,5-10,5	1800
E1011-0900	Biostopper No.9	10,5-11,5	2000
E1011-0901	Biostopper No.9P	9-10,5	2000
E1011-0905	Biostopper No.9k	8,5-10,2	2000
E1011-0906	Biostopper No.9D	7-9,5	2000
E1011-1000	Biostopper No.10	9,5-11,5	1000
E1011-1100	Biostopper No.11	12-14,5	1000
E1011-1200	Biostopper No.12	11,5-13,5	1000
E1011-1201	Biostopper No.12P	11,5-13	1000
E1011-1250	Biostopper No.12,5	10,5-12,5	1000
E1011-1300	Biostopper No.13	12,5-14,5	1000
E1011-1307	Biostopper No.13H	12,5-13,5	1000
E1011-1350	Biostopper No.13,5 P	13,5-14,5	1000
E1011-1400	Biostopper No.14	13-14,5	1000
E1011-1401	Biostopper No.14P	12-14	1000
E1011-1406	Biostopper No.14D	11,5-13	1000
E1011-1409	Biostopper No.14LF	14-16	4000
E1011-1410	Biostopper No.14LD	12-14,5	4000
E1011-1424	Biostopper No.14L.v.u.	13-14,5	1000
E1011-1450	Biostopper No.14,5	14-16	1000
E1011-1500	Biostopper No.15	13,5-15,5	500
E1011-1501	Biostopper No.15P	14-16,5	5000
E1011-1513	Biostopper No.15PB	14,5-15,5	4000
E1011-1514	Biostopper No.15PI	14,7-15,5	4000
E1011-1515	Biostopper No.15 thick	13,5-16,0	5000
E1011-1516	Biostopper No.15E	15,5-17	5000
E1011-1517	Biostopper No.15 DD	14-16,5	5000
E1011-1518	Biostopper 15 l.v.u.	13,5-15,5	1000
E1011-1600	Biostopper No.16	16,5-18	5000
E1011-1700	Biostopper No.17	13-16	1000
E1011-1800	Biostopper No.18	17,5-18,5	500
E1011-1801	Biostopper No.18P	17,5-19,5	500

ORDER INFORMATION

ORDER NUMBER	DESCRIPTION	GLASS INTERNAL Ø (mm)	QUANTITY/BOX
E1011-1806	Biostopper No.18D	17,5-19,5	500
E1011-1808	Biostopper No.18 long	17-19	3000
E1011-1900	Biostopper No.19	19-22	2500
E1011-2000	Biostopper No.20	20,5-22	400
E1011-2001	Biostopper No.20P	19-22,5	2500
E1011-2018	Biostopper No.20M	18,5-19,5	500
E1011-2019	Biostopper No.20A	20,5-22,5	500
E1011-2150	Biostopper No.21,5	17,5-21,5	3000
E1011-2205	Biostopper No.22 short	21,5-23	500
E1011-2208	Biostopper No.22long	22-24	2000
E1011-2350	Biostopper No.23,5P	25-27	2000
E1011-2600	Biostopper No.26	26-27	2000
E1011-2700	Biostopper No.27	27-32,5	1000
E1011-2705	Sealable Biostopper for drosophila culture tube	27-32,5	2500
E1011-2721	Biostopper Magnum	26-30	800
E1011-2723	Biostopper No.MA2/3	25,5-29	250
E1011-2900	Biostopper No.29 850	29,5-31	850
E1011-2905	Biostopper No.29k	26-27	2500
E1011-2919	Biostopper No.29A	29-30	1500
E1011-3200	Biostopper No.32	32,5-35	800
E1011-3201	Biostopper No.32P	32-33	750
E1011-3225	Biostopper No.32PD	30-32,5	750
E1011-3400	Biostopper No.34	33,5-36,5	750
E1011-3600	Biostopper No.36	35,5-39,5	600
E1011-3700	Biostopper No.37	37,5-41,5	600
E1011-3800	Biostopper No.38	40-43,5	500
E1011-4001	Biostopper No.40P	42-46,5	500
E1011-4501	Biostopper No.45P	47-48	300
E1011-4504	Biostopper No.45P DL	47-48	300
E1011-4800	Biostopper Nr.48, 1	47-49	400
E1011-5003	Biostopper Nr. 50 Z, length: 8 cm , 5 cm diameter	47-49	200
E1011-6001	Biostopper No.60P	57-60	200
E1011-7005	Biostopper Nr.70k,	69-71	100



4.5 ANTIBIOTIC TEST PAPER

Absorbent thick paper specially designed for identification of pathogens of infectious diseases by determination of the degree of resistance against antibiotics.

- Made from 100% cotton linters without additives to ensure that no inhibition will appear during the incubation.
- Consistent thickness (290 g/m²) and absorption volume.

ORDER INFORMATION			
ORDER NUMBER	DESCRIPTION	DIAMETER (mm)	QUANTITY/BOX
E1020-AA040M	Antibiotic testing Paper	4	1000
E1020-AA060M	Antibiotic testing Paper	6	1000
E1020-AA090M	Antibiotic testing Paper	9	1000
E1020-AA120M	Antibiotic testing Paper	12	1000
E1020-AA130M	Antibiotic testing Paper	13	1000



4.6 WEIGHING PAPER AND ALUMINIUM CONTAINERS

E4001 grade weighing smooth paper is the best choice to weigh all type of substances.

E4000 aluminium foil dishes with crimped sides, flat bottoms are ideal to weigh of all type of products in scales and dehydrators. Can also be used as evaporating dishes.

ORDER INFORMATION			
ORDER NUMBER	DESCRIPTION	SIZE/DIAMETER (mm)	QUANTITY/BOX
E4001-050050Q	Weighing paper	50x50	500
E4001-100100Q	Weighing paper	100x100	500
E4001-150150Q	Weighing paper	150x150	500
E4000-056Q	Weighing aluminium container	56	500
E4000-072Q	Weighing aluminium container	72	500
E4000-093Q	Weighing aluminium container	93	500



4.7 LENS CLEANING TISSUE

E1400 grade is a high quality lens cleaning tissue that provides the ideal solution to avoid scratches in lenses and other optical surfaces made from glass, quartz or plastic. The tissue is lint-free paper (12 g/m²). High absorbency ensures the safe removal of surface moisture. Very fine paper made of pure manila vegetable fiber, non-abrasive.

ORDER INFORMATION			
ORDER NUMBER	DESCRIPTION	SIZE/DIAMETER (mm) (*)	QUANTITY/BOX
E1400-100150Q	Lens cleaning tissue	100x150	500

(*) Other sizes are available under request.



4.8 SMELLING TEST PAPER

E4100 grade is an absorbent paper made with high-quality linters and cellulose. It is mainly used in perfume and cosmetic laboratories; they are protected from any type of contamination, which makes them ideal to use in laboratories where smelling test is carried out. Weight 280 g/m².

ORDER INFORMATION			
ORDER NUMBER	DESCRIPTION	SIZE (mm)	QUANTITY/BOX
E4100-12010H	Smelling Test Paper	120x10/5	100
E4100-16020H	Smelling Test Paper	160x20/5	100



4.9 GERMINATION TEST PAPER

E3014, E3236 and E3645 grades are quality germination test papers, designed to provide the best and most reliable germination results. Made of pure cellulose and free from bacteria and other toxic substances that could potentially inhibit growth, are ideal for seed germination. The paper is available in white, yellow and grey. These colours choices allow sufficient visibility to observe seed sprouts even in poor light. The pleated strips are specially manufactured for optimum, pure growth. Recommended for the reliable evaluation of seeds. All seed testing papers meet the **ISTA and AOSA requirements**.

TECHNICAL SPECIFICATIONS			
GRADE	COLOR	WEIGHT g/m ²	FORMAT
E3014	white	120	pleated paper (50 double pleats)
E3236	yellow	120	pleated paper (50 double pleats)
E3645	grey	120	pleated paper (50 double pleats)

ORDER INFORMATION			
	E3014	E3236	E3645
SIZE (mm)	50 DOUBLE PLEATS (1000/box)		
2000x110	E3014-2000110M	E3236-2000110M	E3645-2000110M
DIAMETER (mm)	CIRCLES (100/box)		
55	E3014-055	E3236-055	E3645-055
70	E3014-070	E3236-070	E3645-070
80	E3014-080	E3236-080	E3645-080
90	E3014-090	E3236-090	E3645-090
100	E3014-100	E3236-100	E3645-100
110	E3014-110	E3236-110	E3645-110
125	E3014-125	E3236-125	E3645-125
150	E3014-150	E3236-150	E3645-150



4.10 ACTIVATED CARBON PAPER

E1010 grade activated carbon paper is used to eliminate or adsorb small molecules in large amounts as benzene, toluene, ethyl-benzene, xylene and organic compounds. Recommended for water filtration and smell elimination.



TECHNICAL SPECIFICATIONS			
GRADE	CARBON	WEIGHT (g/m ²)	THICKNESS (μm)
E1010	40%	190	500

ORDER INFORMATION	
	E1010
DIAMETER (mm)	CIRCLES (100/box)
70	E1010-070
90	E1010-090
100	E1010-100
130	E1010-130
150	E1010-150
200	E1010-200
250	E1010-250
300	E1010-300
350	E1010-350
400	E1010-400
450	E1010-450
500	E1010-500