TECHNICAL FILTER PAPERS FOR INDUSTRY

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Technical filter paper for industrial processes







Industrial Plant of Filtros Anoia, S.A., Sant Pere Riudebitlles (Barcelona)







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Contents

| m | Quality, reliability and ability to respond | 7 |
|---------------|--|----|
| Ö | Filtros Anoia and quality | 9 |
| <u> </u> | Filtros Anoia in the World | 10 |
| | Quality control and technical definitions for filter paper | 11 |
| ğ | Introduction to the filtration | 13 |
| Filtros Anoia | | |
| | | |

| | Technical filter papers. Description and properties | 14 |
|------------|---|----|
| C | Crepe filter papers | 15 |
| Filtration | 1535 | 16 |
| ភ្ | F60 | 16 |
| | 1591 | 16 |
| L | FA70 | 17 |
| | 1525 | 17 |
| | 1526M | 17 |
| | 1526 | 18 |
| <u>5</u>) | 1526P | 18 |
| ER·LAB | 1518/110 | 18 |
| | 1518/120 | 19 |
| | 1518/140W | 19 |
| | 1615 | 19 |
| | 1518/140 | 20 |
| | 1518/156 | 20 |
| | 1518/160 | 20 |
| | 1518/190 | 21 |
| | 1518/190WS | 21 |
| | 1518/240 | 21 |
| | Smooth filter papers | 22 |
| | 1300G | 23 |
| | SM90 | 23 |
| | 1055 | 23 |
| | 1300/110 | 24 |
| | 1301/250 | 24 |
| | 1301/140 | 24 |
| | F150 | 25 |
| | 1301/160 | 25 |
| | 1320 | 25 |
| | 1301/190 | 26 |
| | 1301/190S | 26 |
| | 1301/250 | 26 |
| | 1301/280 | 27 |
| | 1301/300 | 27 |
| | 1301/320 | 27 |
| | 1301/350 | 28 |
| | 1516P | 28 |
| | 1516 | 28 |
| | 1301/400 | 29 |
| | 1301/430C | 29 |
| | 1301/450 | 29 |
| | 1301/500 | 30 |
| | 1345, 1346 | 30 |
| | Filter sheets | 32 |
| | Filter presses | 34 |



Quality, reliability and reply capability

In 1897, the paper engineer Mr. José Albet Quintana decided to start an industrial project, which 116 years after has improved and has been converted in a consistent reality.

Nowadays, FILTROS ANOIA, S.A has get a highlighted space inside the most renamed companies of the laboratory and industrial filtration sector.

All over other the world, day by day, thousand of engineers, analysts, scientific, teachers, students, operators, researchers and collaborators who recognized and trust in the quality of our products, homologated all of them based on the best quality standards.

But, it is not just the quality our products the reason why we are illusioned for. The response capacity and the technical focused attention in our customers and collaborators is one of the most important reasons of dedication.

Our repertories , one of the largest in the laboratory and industrial filtration sectors, takes the biggest part of our actual necessities: filtration, microfiltration, ultra filtration, equipment and accessories.

Finally, this new catalogue reaffirms our commitment with the quality, the attention to our customers and our own illusion.

Enric Pérez Brignardelli Manager













INDUSTRIAL FILTER PAPERS







FILTROS ANOIA and the quality

Anoia Filters, S.A. is a company certified according to ISO 9001 and ISO 14001 since 1997. Our quality control for the manufactures of filter papers include 8 parameters in real time and up to 20 additional parameters in our own laboratory. Being the first company to incorporate quality control system Finnish Microperm $^{\textcircled{o}}$

Furthermore, our filter papers for industrial use are approved for food use by health authorities.

Some laboratories approved external audits, studies and specific controls to ensure, even more, the quality of our products and procedures that are manufactured.





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FILTROS ANOIA in the world

Nowadays, Filtros Anoia, S.A. exports its products to more than 100 countries around the world, one of them are USA, Germany, Canada, UK, Finland, Switzerland, France, South Korea, Chile or Italy, for example.

Our filters are used in every single sector: pharmaceutical, cosmetically, drinks, foods, chemical, construction, metallurgical, environmental, university, stockbreeding, agriculture, mining, investigation, wine, textile, etc.



- Fabrication, manipulation and headquarter.
- Distributors



Weight in grams (grammage)

Unit of measurement: gr/m²

Expresses the weight in grams of a square meter of manufactured paper. Standard applied: UNE-EN-ISO 536:1995.

According to which a sample of paper between 500 and $1000cm^2$ is weighed on precision scales with a margin of error of 0.5%. Later, the area is calculated and the weight in grams is determined.

Thickness

Unit of measurement: mm

Is the distance between both faces of the paper. Standard applied: UNE-EN 20534 ISO 534:1988 To determine this parameter it used a micrometer that tests static load.

Apparent density

Unit of measurement: g/cm³

Expresses the apparent density according to the following calculation: Standard applied: UNE-EN 20534 ISO 534:1988

Filtration

Is a denomination used as internal way according to the filtration speed of each quality. There are 7 different kind of filtration:

Extra-fast Very fast Fast Medium Slow Very slow

Klemm method (capillary rise of the water)

Unit of measurement: mm/10 min.

Measures the height reached by distilled water at 20°C through a trip of paper 200mm long and 15mm wide, immersed 10mm, for a period of 10 minutes. Standard applied: UNE 57044

Resistance to traction in wet state

Measuring unit: kN/m

Standard applied: UNE 57030-94, ISO 3781 Determines the resistance to the moist state in the filter paper measuring the resistance that a 180 mm length and 10mm width strip can support in a period of time of 10 minutes.

Tensile strength Measuring unit: kN/m

g and a diffe

Standard applied: UNE 57028 Is a paper strip of 15 mm width and 180mm length that is applied with strength that increases in an uniform and progressive way. The measure is taken at the same moment that the break. This parameter is measured in a longitudinal sense (SL) and also in a transversal sense (ST). $g = (m/A) \times 10.000$

where: **m** is the mass of the sample in g **A** is the area of the sample in cm^2

Apparent density (g/cm³) = ____

Weight in grams (g/m²) x 1000

Thickness (mm)

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Quality control and technical definitions for filter paper

Permeability to the air Measuring unit: I/min

Standard applied: Intern It measures the airflow constant in I / min passing through an area of 100 cm² of filter paper at a pressure of 100 mm column of air (cda).

Resistance to the air Measuring unit: Pa

Standard applied: BS-6410.84 The resistance to the air measured in Pa when passing through an area of 100 $\rm cm^2$ of filter paper to a pressure of 10 m / min

Introduction to filtration

Efficiency of retention and speed filtration of FILTER-LAB® industrial filter papers.

The most important goal of the filtration is to adequately select the type of filter according to its purpose. To do this, we will try, by way of standard, to reach the quickest possible velocity of filtration for the level of retention that we need.

The filter papers are depth filters, that is, the retention of the particles take place not only on the surface of the filter but also in the interior by means of mechanisms that are, in some cases, rather complex. In the filtration process there are various factors that play a role and determine the retention, those factors are the following:

Retention on the surface

The particles whose size is more than the holes formed by the network of cellulose fibers will remain on the surface of the filter. Likewise, as the surface becomes saturated the ability of retention increases due to the formation of a layer of particles until the fill-up level is reached. It is here when the process of filtration stops.

Retention on the depth:

Refers to the mechanisms of retention produced inside the filter. Some of the most important processes are:

- Electrostatic adsorption: according to the polarity of the filter fibres and of the particles that must go through it, in some cases, attraction occurs which makes these particles adhere to the fibre walls and particles smaller than the size indicated in the specifications of the filter are retained.

- Effects of inertia: some particles will literally remain stuck inside the network of fibres due tot he high kinetic energy with which they penetrate the pores of the frame.

- **Sedimentation**: the particles can be captured by the filter network and deposited by gravity in somewhere of the interior space formed by the fibres.

In any case, the efficiency of retention of a filter paper is also determined by the other factors related to the liquid, which can be: the pH value, the viscosity and concentrations of the liquid to be filtered as well as the form and composition of the particles in suspension in it.

Other causes or properties of the filter also affect the efficiency of retention: level of refinement of the cellulose fibres, resistance to the moist state of the filter, thickness, nature of the surface, etc.

So due to the extremely complex mechanisms on which filtration depends, it is sometimes impossible to theoretically determine the most adequate filter for filtration. It is at this moment when, in the case of difficult filtrations, it is essential to do some comparative testing of filtration between various samples of filter paper according to the parameters of retentions that we need.

In Filtros Anoia, S.A. are aware of the difficult of some operations of filtration and because of this we are willing to help you resolve your problems of filtration for which we have our own laboratory for quality control and development of new products.













Technical filtering papers and cardboards

Filtration of chemical products, pharmaceutical, cosmetics, coloring, fatties, emulsions, juices, liquors, etc.



Description

Furthermore to the range of FILTER-LAB[®] laboratory filters, Filtros Anoia, S.A. manufactures and markets a wide range of filter papers for industrial use that are uses in various sectors for the filtration of all types of liquids: chemical products, mineral and vegetable oils, coloring agents, fats, emulsions, juices wines, galvanic baths, essences, etc.

We make smooth and creased filtering papers and cardboards with quick, medium or slow velocities of filtration for specific applications or according to standard methods, starting from weights in grams from 44 to 600 gr./m² and all of these handled and die-cut at the dimensions requested by customers in customary or special formats.



Properties

- · Excellent charge capacity.
- A 15-20% more filtrating surface than a smooth paper.
- Higher resistance to the moist state.
- Avoid the premature silting.
- Limited grammage: from 45 to 240gr./m².

Smooth surface

Properties

- · Good filter paper formation.
- More regular pores.
- Very homogeneous formation.
- Good charge capacity.
- Very wide range: from 45 to 600 gr./m².



Crepe technical filter papers

| Ref. | Weight in grams | Thickness | Applications |
|-----------|-----------------|-----------|--|
| | gr/m² | mm | |
| 1535 CT | 50 | 0.185 | Dye for textile fibers. |
| 1591 | 64 | 0.165 | Solutions with sugar with low concentration |
| F60 | 60 | 0.250 | Filtration of infusions, emulsions and food |
| FA 70 | 70 | 0.270 | Chemical products, essentials oils |
| 1525 CR | 73 | 0.285 | Filtration of industrial colored, galvanic industry. |
| | | | Solutions a little bit acid or alkaline |
| 1526M | 87 | 0.370 | Glav anic industry |
| 1526 | 90 | 0.330 | Galvanic industries, seed oils |
| | | | Solutions a little bit acid or alkaline |
| 1526P | 90 | 0.390 | Filtration quicker than the earlier. Galvanic industry |
| | | | Recovery of precious metals, filtration of seed oils. |
| 1518/110 | 110 | 0.320 | Filtration of technical fats, moods, and sunflower oils. |
| 1518/120 | 120 | 0.340 | Industrial chemical products and fine chemistry. |
| 1518/140W | 132 | 0.550 | Very dense edible oils, animal fats, concentrated essences. |
| 1615 | 140 | 0.550 | Technical greases, animal fats, juices and mosts |
| 1518/140 | 140 | 0.450 | Filtration of juices, grape-juices, wines, galvanic industry, etc. |
| 1518/156 | 156 | 0.550 | Syrups, essential oils, butters |
| 1518/160 | 160 | 0.450 | Distiled and liquors. |
| 1518/190 | 185 | 0.650 | Polishment on virgin olive oils, glicerines and galvanic industry. |
| 1518/190W | 185 | 0.650 | Chemical products |
| 1518/240 | 240 | 0.780 | Polishment on virgin olive oils, glicerines and galvanic industry. |
| | | | Absorpiont strips for capilation in parfums. |



Technical filter paper ref. 1535

| | Surface: crepe | Speed filtration: Fast | | | | | | |
|---|---------------------|---|-------------|------|-----------|--|--|--|
| | Grammage: 50 gr/m2 | | Ļ | | | | | |
| | Thickness: 0.185 mm | Extra fast very fast | fast Medium | Slow | Very slow | | | |
| Aplications | | Properties | Formats | | | | | |
| Filtration of colorants in textile conesLow concentration syrups | | Crepe filter paper.Thin thickness.Biodegradable | | | • | | | |

Technical filter paper ref. F 60



Aplications

Musts

Emulsions

Filtration of infusions

Surface: crepe

Grammage: 60 gr/m² Thickness: 0.250 mm

Speed filtration: Very fast



Technical filter paper ref. 1591



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Technical filter paper ref. FA 70

| | Surface: crepe | Speed filtration: Fas | Speed filtration: Fast | | | | | | |
|------------------------------------|---|--|------------------------|------|-----------|--|--|--|--|
| | Grammage: 70 gr/m ² Thickness: 0.270 mm | | Ļ | | | | | | |
| | 1110KH635. 0.270 11111 | Extra fast very fast | fast Medium | Slow | Very slow | | | | |
| Aplications | | Properties | Formats | | | | | | |
| Essential oils | hemical products cation of liquids | Crepe filter paper.Thin thicknessBiodegradable | | | | | | | |

Technical filter paper ref. 1525

| | Surface: crepe | | Speed filtration: Fa | ist | | | |
|--|---|--|----------------------|------|---------|------|-----------|
| | Grammage: 73 gr/m ² Thickness: 0.285 mm | | Extra fast very fast | fast | Medium | Slow | Very slow |
| Aplications • Filtration of ceramic colorants • Filtration of gold baths in galvanic industry. • Soft acid and basic solutions • Cooper baths in galvanic industry • Filtration of edible oils | | PropertiesCrepe filter paper.High wet resistanceBiodegradable | | | Formats | | |

Technical filter paper ref. 1526M

| | Surface: crepe | | Speed filtration: Fa | ist | | | |
|--|---------------------|-------------------------|---|------|---------|------|-----------|
| | Grammage: 85 gr/m2 | | | Ļ | | | |
| | Thickness: 0.370 mm | | Extra fast very fast | fast | Medium | Slow | Very slow |
| Aplications | | Prope | rties | | Formats | | |
| Gold and cooper baths in galvanic industry | | Hig | High wet resistance | | | | |



Technical filter paper ref. 1526



Aplications

Musts

Fruit juices

Surface: crepe

Grammage: 90 gr/m² Thickness: 0.330 mm

Speed filtration: Medium



Technical filter paper ref. 1526P

Gold and cooper baths in galvanic industry

In filtration of wines as protector of filter sheets

Filtration of sunflower oil

Filtration of edible oils



Aplications

•

• Filtration of dense edible oils

Filtration of dense fruit juices

Sludge drying in filter press

Surface: crepe Grammage: 90 gr/m² Speed filtration: Very fast



.

Technical filter paper ref. 1518/110

| | Surface: crepe | Speed filtration: Medium | | | | | | |
|---|--|--|-----------|------|-----------|--|--|--|
| | Grammage: 110 gr/m ² Thickness: 0.320 mm | | • | | | | | |
| | | Extra fast very fast fast | st Medium | Slow | Very slow | | | |
| Aplications | | Properties | Formats | | | | | |
| Filtration of sunfTechnical fats | lower oils | Crepe filter paper.Thin thickness | | | | | | |

Sludge drying in filter press •

- Biodegradable •

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Technical filter paper ref. 1518/120

| | Surface: crepe | | Speed fil | tration: Fa | ation: Fast | | | | |
|---------------------------------------|--|-----|--|-------------|-------------|---------|------|-----------|--|
| | Grammage: 120 gr/m ² Thickness: 0.340 mm | | | | | | | | |
| | | | Extra fast | very fast | fast | Medium | Slow | Very slow | |
| Aplications | | Pro | operties | | | Formats | | | |
| Fine chemical pro | oducts | : | Crepe filter pa High wet resis Biodegradable | tance | | | | | |

Technical filter paper ref. 1518/140W



| | Surface: crepe | Speed filtration: Very fast | | | | | | |
|---|--|-----------------------------|---|-----------|------|---------|------|-----------|
| | Grammage: 132 gr/m ² Thickness: 0.550 mm | | | | | | | |
| | | | Extra fast | very fast | fast | Medium | Slow | Very slow |
| Aplications | | Prope | rties | | | Formats | | |
| Filtration of lacquDye emulsionsAnimal fats | ers | Hig | epe filter pape gh wet resistar odegradable | | | | | |

• • Filtration of gelatines

Technical filter paper ref. 1615

Surface: crepe

Grammage: 140 gr/m² Thickness: 0.550 mm

Aplications

- Filtration of juices and grape juices.
- Filtration of wines •
- Animal fats
- Technical greases •

| Speed filtration: | Very fast |
|-------------------|-----------|
|-------------------|-----------|

| Extra fast | very fast | fast | Medium | Slow | Very slow |
|------------|-----------|------|--------|------|-----------|

Properties

- Crepe filter paper. •
- High wet resistance •
- Biodegradable •





Technical filter paper ref. 1518/140

| | Surface: crepe | | Speed filtration: Fast | | | | | | |
|--|--|-------------------------|--|-----------|------|---------|------|-----------|--|
| | Grammage: 140 gr/m² Thickness: 0.450 mm | | | | Ļ | | | | |
| | | | Extra fast | very fast | fast | Medium | Slow | Very slow | |
| Aplications | | Prope | erties | | | Formats | | | |
| Filtration of juices Pre-filtration of wi In galvanic indust zinc baths Technical greases | nes ry for cooper, nickel and | Hię | epe filter pa gh wet resis odegradable | ance | | | | | |

Technical filter paper ref. 1518/156



Technical filter paper ref. 1518/160

| | Surface: crepe | Speed filtration: Medium | | | | | | | |
|---------------------------------------|--|------------------------------|-----------|-----------|------|---------|------|-----------|--|
| | Grammage: 160 gr/m ² Thickness: 0.450 mm | | | | | | | | |
| | | Ext | tra fast | very fast | fast | Medium | Slow | Very slow | |
| Aplications | | Properties | 5 | | | Formats | | | |
| Filtration of hai | r lotions | Crepe fi | ilter pap | ber. | | | | | |

.

- Distilled and liquors
- Filtration of musts and red wines
- Fruit juices

- High wet resistance
 - Biodegradable •

FILTER • LAB

Technical filter paper ref. 1518/190

| | Surface: crepe | | Speed filtration: Medium | | | | | | |
|--|--|-------------------------|--|------|---------|------|-----------|--|--|
| | Grammage: 185 gr/m² Thickness: 0.650 mm | | | | | | | | |
| | | | Extra fast very fast | fast | Medium | Slow | Very slow | | |
| Aplications | | Proper | rties | | Formats | | | | |
| Polishment of olive oil before bottled in glass Filtration of glycerines in high temperature In galvanic industry for cooper, nickel and zinc baths. Contamined industrial liquids Filtration of dye stuff Chip pan filters | | Hig | pe filter paper. h wet resistance degradable | | | | | | |

Technical filter paper ref. 1518/190WS

| | Surface: crepe | | Speed filtration | on: Ve | ry fast | | | |
|--|---------------------|---|------------------|--------|---------|---------|------|-----------|
| | Grammage: 185 gr/m2 | | | Ļ | | | | |
| | Thickness: 0.650 mm | | Extra fast very | / fast | fast | Medium | Slow | Very slow |
| Aplications | | Proper | rties | | | Formats | | |
| Filtration of chemical products in high pressure by filter press | | Crepe filter paper.Extra high wet resistanceBiodegradable | | | | | | |

Technical filter paper ref. 1518/240





Smooth technical papers

| Ref. | Weight in grams | Thickness | Applications |
|-----------|-----------------|---------------|--|
| | gr/m² | mm | |
| 1300G | 85 | 0.180 | Prefiltration before filter disks |
| SM90 | 90 | 0.190 | Retention of carbon active particles, mineral waters and very fine particles. |
| 1055 | 100 | 0.240 | Essences filtration, galvanizing industry. |
| | | | Protection of disks in filter presses for wines, liquors, vinegars, etc. |
| 1300/110 | 110 | 0.250 | Quick filtration of large volumes for the retention of thick particles. |
| | | | Filtration of emulsins and ink. |
| 1301/125 | 125 | 0.250 | C hemical products |
| 1301/140 | 140 | 0.290 | Resines, lacquers and additives |
| F150 | 150 | 0.300 | water from boilers and clear liquids |
| 1301/160 | 160 | 0.380 | Filtration odf turbid liquids, extracts and juices. |
| 1320 | 160 | 0.470 | Filtration of very dense liquids, essential oils, animal fats, sy rups. |
| 1301/190 | 185 | 0.410 | Filtration of chemical products and edible oils. |
| | | | Absorbents in the graphic industry. |
| 1301/190S | 185 | 0.400 | High resistance to moist state. Filtration in press filters with high pressure |
| 1301/250 | 250 | 0.580 | Clarification of liquids, oils and cosmetics. |
| 1301/280 | 280 | 0.444 | Filtration of mineral oils, hydrocarbons, lacquers |
| 1301/300 | 300 | 0.650 | Mineral oils (big motors, machines, electrical transformers) |
| 1301/320 | 320 | 0.880 | Turbines oils, trasnformers, hy draulics, motor lubricants |
| 1301/350 | 350 | 0.780 | Medium filtration. Resistant to the moist state. |
| 1516P | 375 | 0.980 | Glavanic industry, very dense and dirty mineral oils. |
| 1516 | 390 | 0.930 | Galvanic industry, oils, turbid mineral oils. |
| | | | Absorbent for liquids |
| 1301/400 | 400 | 0.750 | Filtration of nutritional additives. |
| 1301/430 | 430 | 0.880 | Mineral water, fine chemicals, galvanic, special low density liquids |
| 1301/450 | 450 | 0.990 | Filtration or clarifications in the chemical industry. |
| | | | Alcohols, filtration of water from boilers. |
| 1301/500 | 500 | 1.130 | Polishing of edible oils, soaking of industrial substances. |
| 1345 | 160 | 0.400 - 0.450 | Carbon active paper. Liquids bleaching, glavanic industry |
| | | | C hemical products |
| 1346 | 170 | 0.450 - 0.500 | Active carbon filter paper, food grade |



Technical filter paper ref. 1300G

| Surface: smooth | Speed filtration: Medium | Medium | | | |
|--|--|-----------------------|--|--|--|
| Grammage: 85 gr/m ² Thickness: 0.180 mm | | | | | |
| mickiess. 0. roo min | Extra fast very fast fast | Medium Slow Very slow | | | |
| Aplications | Properties | Formats | | | |
| Prefiltration in filter press before filter sheets Filtration of salted solutions Filtration of sugar juices | Smooth filter paper.High wet resistanceBiodegradable | | | | |

Technical filter paper ref. SM90

| | Surface: smooth | Speed filtration: Very slow | | | | | | |
|-------------------------------------|---|--|----------|---------|------|-----------|--|--|
| | Grammage: 90 gr/m ² Thickness: 0.190 mm | | | | | Ļ | | |
| michiess. 0. 190 min | | Extra fast very | ast fast | Medium | Slow | Very slow | | |
| Aplications | | Properties | | Formats | | | | |
| Filtration of m | carbon active particles ineral water ent of different liquids | Smooth filter paper. Extra high wet resist Biodegradable Very slow filtration | ince | | | | | |

Biodegradable

Technical filter paper ref. 1055

Surface: smooth

Grammage: 100 gr/m² Thickness: 0.240 mm

Speed filtration: Medium

| | | | | | Ļ | | |
|---|--------|----------------------------|-----------|------|---------|------|-----------|
| | | Extra fast | very fast | fast | Medium | Slow | Very slow |
| | Proper | ties | | | Formats | | |
| Э | | ooth filter p wet resis | | | | | |

Filtration of essences

Aplications

 Prefiltration of wine, liquors and vinegars before filter sheets.

•



Technical filter paper ref. 1300/110

| | Surface: smooth | Speed filtration: M | edium | | |
|--|--|--|-------------|---------------|----|
| | Grammage: 110 gr/m ² Thickness: 0.250 mm | | Ļ | | |
| | | Extra fast very fast | fast Medium | Slow Very slo | SM |
| Aplications | | Properties | Formats | | |
| Quick filtration of thick particles Filtration of emu | of large volume fro retention of | Smooth filter paper.High wet resistanceBiodegradable | | | |

• Absorption of ink in the print industry



Technical filter paper ref. 1301/140

Surface: smooth

Speed filtration: Fast

| Grammage: 140 gr/m ² Thickness: 0.290 mm | | | | | | |
|--|-------------|-----------|------|---------|------|-----------|
| | Extra fast | very fast | fast | Medium | Slow | Very slow |
| | Description | | | Formata | | |

Aplications **Properties** Formats Crepe filter paper. Filtration of resines in high temperature Filtration of food additives High wet resistance •

Filtration of lacquers •

- Biodegradable



Technical filter paper ref. F150

| | Surface: smooth | | Speed filtration: Very Slow | | | | | | | |
|---|--|--------------|---|------|---------|------|-----------|--|--|--|
| | Grammage: 150 gr/m² Thickness: 0.300 mm | | | | | | Ļ | | | |
| | | | Extra fast very fast | fast | Medium | Slow | Very slow | | | |
| Aplications | | Prop | erties | | Formats | | | | | |
| Filtration of wa Clarification of Polishing of ch | | ■ Hi ■ Bi | mooth filter paper. igh wet resistance odegradable ery slow filtration | | | | | | | |

Technical filter paper ref. 1301/160

| Surface: smooth Grammage: 160 gr/m ² Thickness: 0.380 mm | | Speed filtratio | : Mediur | n | | |
|--|---------------------|--|--------------------|---------|------|-----------|
| | | | | Ļ | | |
| Thickness. | 1110kness. 0.300 mm | Extra fast very | ast fast | Medium | Slow | Very slow |
| Aplications | | Properties | | Formats | | |
| Filtration of turbid liquidsFiltration of vegetable extractsFruit juices | | Smooth filter paper.High wet resistanceBiodegradable | igh wet resistance | | | |

Technical filter paper ref. 1320

Surface: smooth Grammage: 160 gr/m² Thickness: 0.470 mm Speed filtration: Extra fast

| Ļ | | | | | |
|------------|-----------|------|--------|------|-----------|
| Extra fast | very fast | fast | Medium | Slow | Very slow |

Aplications

- Filtration of animal fats as butter.
- Very dense essential oils.
- Syrups
- Filtration of liquids with high load precipitates

| Pro | perties |
|-----|---------|
| | 2010100 |

- Smooth filter paper.
- High wet resistance
- Biodegradable
- Extra fast filtration





Technical filter paper ref. 1301/190

| Surface: smooth | Speed filtration: Medium |
|---|---|
| Grammage: 190 gr/m2 Thickness: 0.410 mm | Extra fast very fast fast Medium Slow Very slow |
| AplicationsPolishment of olive oil before bottled. | Properties Formats Smooth filter paper. |
| Filtration of chemicals products Absorption of excess ink in the print industry In the galvanic industry for filtration of manganese baths Filtration of food aditives | High wet resistance Biodegradable |

Technical filter paper ref. 1301/190S



Technical filter paper ref. 1301/250

| | Surface: smooth | Speed filtration: Fast | | | | | |
|---------------------|---------------------|----------------------------|--------------------|--------|---------|-----------|--|
| | Grammage: 250 gr/m2 | | | Ļ | | | |
| Thickness: 0.580 mm | | Extra fast very fast | fast | Medium | Slow | Very slow | |
| Aplications | | Proper | ties | | Formats | | |
| | | Smooth | ooth filter paper. | | | | |

High wet resistance

Biodegradable

•

- Standard quality for clarification of liquids •
- Filtration of transformer oils •
- Cosmetics
- In galvanic industry for filtration of manganese, • cooper, bright nickel, zinc and nickel baths.

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Technical filter paper ref. 1301/280

| Surface: smooth | Speed filtration: Medium | Speed filtration: Medium | | | | | |
|--|--|--------------------------|------|-----------|--|--|--|
| Grammage: 280 gr/m ² Thickness: 0.444 mm | | Ļ | | | | | |
| | Extra fast very fast fast | Medium | Slow | Very slow | | | |
| Aplications | Properties | Formats | | | | | |
| Filtration of mineral oils Hidrocarbons Lacquers and resins In galvanic industry for filtration of cooper and zinc baths | Smooth filter paper.High wet resistanceBiodegradable | | | • | | | |

Technical filter paper ref. 1301/300



Technical filter paper ref. 1301/320

Surface: smooth

Grammage: 320 gr/m2 Thickness: 0.880 mm

Aplications

A|

- Filtration of turbine oils, transformers, hydraulics, motor lubricants.
- Smooth filter paper.

Speed filtration: Medium

fast

Medium

Extra fast very fast

- High wet resistance
- Biodegradable

Properties



Slow

Very slow

Dirty products



Technical filter paper ref. 1301/350

| | Surface: smooth | Speed filtration: Medium | Speed filtration: Medium | | | | | |
|--|--|---|--------------------------|------|-----------|--|--|--|
| | Grammage: 350 gr/m² Thickness: 0.780 mm | | Ļ | | | | | |
| | | Extra fast very fast fast | Medium | Slow | Very slow | | | |
| Aplications | | Properties | Formats | | | | | |
| Filtration of fine | e chemicals | Smooth filter paper. Very high wet resistance Biodegradable Good retention of fine particles | | | ••• | | | |

Technical filter paper ref. 1516P



Technical filter paper ref. 1516

| | Surface: smooth | Speed filtration: Medium | Speed filtration: Medium | | | | | |
|---------------------|---|--|--------------------------|--|--|--|--|--|
| | Grammage: 390 gr/m ² | _ | | | | | | |
| Thickness: 0.930 mm | Extra fast very fast fast Medium Slow | Very slow | | | | | | |
| Aplications | | Properties Formats | | | | | | |
| | lifferent liquids. neral, engines, electrical s, motors, turbines | Smooth filter paper. High wet resistance Biodegradable High load capacity | •••• | | | | | |

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Technical filter paper ref. 1301/400

| | Surface: smooth | | Speed filtration: Me | edium | | | |
|--|---|---------------|--|---------|---------|------|-----------|
| Grammage: 400 gr/m ² Thickness: 0.750 mm | | | | | Ļ | | |
| | | | Extra fast very fast | fast | Medium | Slow | Very slow |
| Aplications | | Prope | erties | | Formats | | |
| Filtration of fine Filtration of nut Mineral water | ritional aditives | ■ Ve ■ Bio | nooth filter paper. ry high wet resistance odegradable | | | | |
| | ar liquids with low density ustry for filtration of cooper baths | | ood retention of fine pa gh load capacity | rticies | | | |

Technical filter paper ref. 1301/430C

| Surface: smoot | th Speed filtration | n: Very Slow |
|---|---|---------------------------------|
| Grammage: 43 Thickness: 0.88 | | |
| | Extra fast very fa | fast fast Medium Slow Very slow |
| Aplications | Properties | Formats |
| Filtration of fine chemicals Mineral water Filtration of clear liquids with low den | | |
| In galvanic industry for filtration of co Liquids with very high turbidity | oper baths • Good retention of fine • High load capacity | le particles |

Technical filter paper ref. 1301/450

| | Surface: smooth | | Speed filtration: | Slow | | | |
|---|--|---|---|--------|---------|------|-----------|
| | Grammage: 450 gr/m2 Thickness: 0.990 mm | | Extra fast very fas | t fast | Medium | Slow | Very slow |
| Aplications | | Prope | | ı iası | Formats | Slow | very slow |
| industry Alcohols and spiri Filtration of water Retention of partic | | Ver Bio Hig Go | nooth filter paper. Ty high wet resistant Idegradable Ih load capacity od retention of fine ck thickness | | | | |



Technical filter paper ref. 1301/500

| Surface: smooth Grammage: 500 gr/m ² Thickness: 1,130 mm | Speed filtration: Slow | Speed filtration: Slow | | | | | |
|---|--|------------------------|--|--|--|--|--|
| | Extra fast very fast fast | Medium Slow Very slow | | | | | |
| Aplications Construction of sewn bags for final filtration of olive oil. Filtration of many industrial substances Mineral water Retention of particles as active carbon, perlites, diatomeaceus used in the food industry Filtration of foods In galvanic industry for silver and nickelsulfamate baths | Properties Smooth filter paper. High wet resistance Biodegradable High load capacity Thick filter paper | Formats | | | | | |

Carbon filter paper ref. 1345

Surface: smooth

Grammage: 160 gr/m² Thickness: 0.400 - 0.450 mm

Speed filtration: Slow

| Extra fast | very fast | fast | Medium | Slow | Very slow |
|------------|-----------|------|--------|------|-----------|

 (\bullet)

Formats

Aplications

- Chemical products
- Clarification and decoloration of industrial liquids. In galvanic industry for filtration of lead, cadmium, ferrum, cooper and bright nickel baths
- Regeneration of galvanic baths
- Filter paper with active carbon •
- 30% carbon contained
- Good retention of very fine
- particles

Properties

Use only for industrial grade •

Carbon filter paper ref. 1346

Filtration and decoloration of food



Aplications

Surface: smooth

Grammage: 170 gr/m² Thickness: 0.450 - 0.500 mm

Speed filtration: Slow



particles Use only for food grade





Filter sheets

Filtration of chemical products, pharmaceuticals, cosmetics, additives, fat, emulsions, fruit juices, liquors, oils, drinks...



Description

The filtration of liquids through the use of filter presses and filter disks is nowadays a system that is still much in use for: industrial liquids, food, drinks, cosmetics. Filter sheets are made of pure cellulose and cotton fibers, Diatom soil, pearls and polyethylene fibers in some cases. This composition provides to this filtration method some interesting characteristics:

Excellent performance

The cellulose structure creates a three dimensional matrix due to the large void volume greater than 85%, allowing passage of high flow.

Retention

Auxiliary materials of the plates increase the retentive effect which, combined with the high positive zeta potential provide polyethylene fibers are retained, also causes small particles and negatively charged colloids.

Quality

The Filtros Anoia, S.A filter disks are manufactured according to the quality system DIN ISO 9001. All specific production parameters are monitored continuously during the whole manufacturing process.

Resistance

Thanks to the using inert polymers during the production process ensures that these plates are resistant to humid environments, even at concrete temperature.

APPLICATIONS

- Drinks: wine, grape juice, liquor, beer, cider,
- vinegar, mineral water, fruit juices, spirits, etc. • Chemicals: resins, lacquers, stains, dyes,
- alcohols.
- Edible oils: olive, refined, seed, etc.
- Foodstuffs essences, syrups, additives, gelatine, fructose, glucose, vegetable extracts, etc.
- Pharmaceuticals: serum and plasma solutions,
- ophthalmic solutions, vaccines, etc.
- Cosmetics and perfumes: fragrances, scents, colognes.
- · Hydrocarbons: gasoline, lubricants, mineral oils.





Technical specifications

| Ref. | Effect | Weight in grams | Thikness | Density | Flow rate | Ash | Nominal retention |
|--------|-----------------|-----------------|-------------|-------------------|------------------------|---------|-------------------|
| | | gr/m² | mm | g/cm ³ | l/min x m ² | % | μm |
| PF-10 | Breaker down | 700 - 825 | 3.20 - 3.70 | 0.20 - 0.27 | 1250 | < 2 | 40.0 - 50.0 |
| PF-30 | Breaker down | desgrose | 2.90 - 3.50 | 0.21 - 0.30 | 1110 | 17 - 21 | 7.0 - 11.0 |
| PF-35 | Breaker down | 950 - 1075 | 3.50 - 3.70 | 0.26 - 0.31 | 950 | 22 - 27 | 4.0 - 7.0 |
| PF-50 | Clarifier | 875 - 1000 | 2.10 - 2.30 | 0.38 - 0.48 | 235 | 30 - 37 | 3.0 - 4.0 |
| PF-395 | Medium polisher | 1050 - 1200 | 3.40 - 3.70 | 0.28 - 0.35 | 600 | 37 - 43 | 3.5 - 5.5 |
| PF-595 | Medium polisher | 1150 - 1300 | 3.40 - 3.70 | 0.31 - 0.38 | 200 | 36 - 42 | 2.0 - 3.0 |
| PF-795 | Fine polisher | 1150 - 1300 | 3.40 - 3.60 | 0.32 - 0.38 | 120 | 38 - 44 | 1.0 - 2.25 |
| PF-995 | Sterile | 1450 - 1600 | 3.50 - 4.00 | 0.36 - 0.46 | 55 | 36 - 42 | 0.4 - 0.6 |
| PF-997 | Sterile | 1400 - 1600 | 3.60 - 4.10 | 0.34 - 0.44 | 67 | 44 - 50 | 0.25 - 0.45 |

Formats and dimensions



20 x 20 40 x 40 60 x 60

Dimensions: Measures in cmPresentation:20 x 20 cm: Cartons of 400 units

40 x 40 cm: Cartons of 100 units 60 x 60 cm: Cartons of 50 units

Other formats and dimensions available under demand.

Information for orders. Filter sheets

| Ref. | 20 x 20 cm | 40 x 40 cm | 60 x 60 cm |
|--------|-------------|-------------|-------------|
| PF-10 | HJPF102020 | HJPF104040 | HJPF106060 |
| PF-30 | HJPF302020 | HJPF304040 | HJPF306060 |
| PF-35 | HJPF352020 | HJPF354040 | HJPF356060 |
| PF-50 | HJPF502020 | HJPF504040 | HJPF506060 |
| PF-395 | HJPF3952020 | HJPF3954040 | HJPF3956060 |
| PF-595 | HJPF5952020 | HJPF5954040 | HJPF5956060 |
| PF-795 | HJPF7952020 | HJPF7954040 | HJPF7956060 |
| PF-995 | HJPF9952020 | HJPF9954040 | HJPF9956060 |
| PF-997 | HJPF9972020 | HJPF9974040 | HJPF9976060 |



Filter press

Filtration of different industrial and pharmaceuticals liquids, beverages, food, etc.



Description

Sometimes leakages must perform certain small volumes of liquids whose production is performed on a reduced scale (perfumes, pharmaceuticals, valuable liquids, etc.). In these cases require the use of filtration systems which are manageable, accurate and reliable.

FILTER-LAB[®] is a filtration system filter press for small size and portable. Use filter plates 20 x 20 cm, with a maximum of 36 plates. The version is made of bronze M3000, M3000 and another quality the INOX, for food use is also made in bronze with the surface treatment steel.

It is available as an accessory gauge and spare parts: rubber washers, drip tray and filter holder plates.

Technical specifications

M3000 series equipment Material: brass body, PP plates, rubber washers Material M3000INOX team series: brass body with a surface treatment steel, PP plates, rubber washers. Measure plates: 20 x 20 cm Maximum operating pressure: 20 bar Power supply: 220 V, 50 Hz Work Surface: 6 plates, 0.24 m2, 12 plates, 0.48 m2, 18 plates, 0.72 m², 36 plates, 1.44 m² Weight: 17 kg (6 plates) Dimensions: 450 x 270 x 280 mm Input / Output: rubber tube 20 mm diameter

Information for orders. Plat filter press

| M3000 | | M3000 INOX | |
|--------------|---------------|--------------|---------------------|
| n° of plates | Code | n° of plates | Code |
| 6 | M 30002020-6 | 6 | M 3000IN O X2020-6 |
| 12 | M 30002020-12 | 12 | M 3000IN O X2020-12 |
| 18 | M 30002020-18 | 18 | M 3000IN O X2020-18 |
| 36 | M 30002020-36 | 36 | M 3000IN O X2020-36 |

APPLICATION

- Filtration of wines, liqueurs, spirits, vinegar.
- · Chemical filtration.
- · Filtration of essential oils.
- · Filtration of edible oils.
- Filtration of samples of high-volume laboratory.
- Small-scale production of perfumes

ACCESSORIES

| Code | Description |
|-----------|---------------------------------------|
| M3000-V1 | Pressure-gauge and regulation valve |
| | Adaptable to all kind of filter press |
| M3000-AG | Gum washer. Bag of 8 units |
| M3000-BG | Drippin tray |
| M3000-PB | White filter holder plate |
| M3000-PRE | Red filter holder plate input |
| M3000-PRS | Red filter holder plate output |





Orders for TECHNICAL FILTER PAPERS

The products contained in this catalogue can be ordered through the Commercial Office of Filtros Anoia.

For more technical information to our Technical and Commercial Department

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About this catalog



All the applications indicated in this catalog of products are only possible examples of use after many years of experience. So it is advised to evaluate in each case the characteristics of the sample or the liquid to filter and also the use conditions.

There is a version of this catalog in Spanish, you can ask for it to our Commercial Department.

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Specialists in filtration, microfiltration and separation products of laboratory.



FILTER • LAB

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