



# QUALITATIVE ANALYTICAL FILTERS

## APPLICATIONS

● These grades are made with high purity cotton linters fibres and cellulose fibres (ash content of 0.06%). The qualitative filter papers allow to determinate with a great precision the nature of the filtered solutions and to check the composition of the samples. They offer better resistance to chemicals and moisture compared to standard filters and thus can be used for food, beverages, environmental analysis (air, soil...).

filtraTECH's grades: QL01 | QL02 | QL03 | QL04 | QL05 | QL08.

➤ Available in sheets (F), plain discs (A) or folded discs (P).



	Very fast filtration qualitative filter paper.					
QL01	Weight (g/m <sup>2</sup> ) DIN 53104	Thickness (mm)	Pore size (µm)	Filtration speed (sec) DIN 53137	Burst strength (kg/cm <sup>2</sup> )	// Whatman : 4
	80	0.21	15-20	10	>20	
	Fast filtration qualitative filter paper.					
QL02	Weight (g/m <sup>2</sup> ) DIN 53104	Thickness (mm)	Pore size (µm)	Filtration speed (sec) DIN 53137	Burst strength (kg/cm <sup>2</sup> )	// Whatman : 597
	88	0.18	12-15	20	>20	
	Medium filtration qualitative filter paper.					
QL03	Weight (g/m <sup>2</sup> ) DIN 53104	Thickness (mm)	Pore size (µm)	Filtration speed (sec) DIN 53137	Burst strength (kg/cm <sup>2</sup> )	// Whatman : 2
	87	0.18	8-12	50	>30	
	Slow filtration qualitative filter paper.					
QL04	Weight (g/m <sup>2</sup> ) DIN 53104	Thickness (mm)	Pore size (µm)	Filtration speed (sec) DIN 53137	Burst strength (kg/cm <sup>2</sup> )	// Whatman : 6
	80	0.16	4-7	100	>20	
	Very slow filtration qualitative filter paper.					
QL05	Weight (g/m <sup>2</sup> ) DIN 53104	Thickness (mm)	Pore size (µm)	Filtration speed (sec) DIN 53137	Burst strength (kg/cm <sup>2</sup> )	// Whatman : 5
	80	0.16	2-4	200	>20	
	Very slow filtration qualitative filter paper.					
QL08	Weight (g/m <sup>2</sup> ) DIN 53104	Thickness (mm)	Pore size (µm)	Filtration speed (sec) DIN 53137	Burst strength (kg/cm <sup>2</sup> )	// Whatman : 1
	100	0.19	1-3	300	>20	

# QUANTITATIVE ANALYTICAL FILTERS

APPLICATIONS

● The quantitative or ashless filter papers are made with 100% high quality cotton linter fibres, which go through a severe chemical process. They have been washed out with a specific acid treatment and finally cleaned from impurities with demineralized water. This process allows reaching an ash content below 0.01%. These papers are used to count during demanding analysis.

- filtraTECH's grades: QT41 | QT42 | QT43 | QT44 | QT45 | QT46.
- Available in sheets (F), plain discs (A) or folded discs (P).



	Very fast filtration quantitative filter paper. ●					
QT41	Weight (g/m <sup>2</sup> ) DIN 53104	Thickness (mm)	Pore size (µm)	Filtration speed (sec) DIN 53137	Ash content	// Whatman : 41
	84	0.2	25-30	9	<0.01	
	Fast filtration quantitative filter paper. ●					
QT42	Weight (g/m <sup>2</sup> ) DIN 53104	Thickness (mm)	Pore size (µm)	Filtration speed (sec) DIN 53137	Ash content	// Whatman : 43
	84	0.2	20-25	27	<0.01	
	Medium filtration quantitative filter paper. ●					
QT43	Weight (g/m <sup>2</sup> ) DIN 53104	Thickness (mm)	Pore size (µm)	Filtration speed (sec) DIN 53137	Ash content	// Whatman : 40
	84	0.2	14-18	55	<0.01	
	Slow filtration quantitative filter paper. ●					
QT44	Weight (g/m <sup>2</sup> ) DIN 53104	Thickness (mm)	Pore size (µm)	Filtration speed (sec) DIN 53137	Ash content	// Whatman : 44
	74	0.16	7-9	100	<0.01	
	Very slow filtration quantitative filter paper. ●					
QT45	Weight (g/m <sup>2</sup> ) DIN 53104	Thickness (mm)	Pore size (µm)	Filtration speed (sec) DIN 53137	Ash content	// Whatman : 42
	84	0.17	2-4	140	<0.01	
	Thick very slow filtration quantitative filter paper.					
QT46	Weight (g/m <sup>2</sup> ) DIN 53104	Thickness (mm)	Pore size (µm)	Filtration speed (sec) DIN 53137	Ash content	// Whatman : I
	100	0.2	2-3	195	<0.01	



## Quantitative filters for specific applications



### APPLICATIONS

● With additional chemical treatment, some grades of quantitative filter paper are modified and can be used for very specific applications.

- filtraTECH grades: QT48 | QT49.
- Available in sheets (F), plain discs (A) or folded discs (P).

QT48	Magnesium-free filter paper, recommended for soil analysis.				
	Weight (g/m <sup>2</sup> ) DIN 53104	Thickness (mm)	Pore size (µm)	Filtration speed (sec) DIN 53137	Ash content
	80	0.2	6-8	150	<0.01

// Whatman :  
1

QT49	Fast filtration quantitative filter paper, low fat content. Recommended for determination of grease content in dairy products (milk, cheese).				
	Weight (g/m <sup>2</sup> ) DIN 53104	Thickness (mm)	Pore size (µm)	Filtration speed (sec) DIN 53137	Ash content
	82	0.16	8-12	20	<0.01

// Whatman :  
589/4

## Strengthened ashless filter

### APPLICATIONS

● The strengthened range of quantitative filter papers is produced according to the same demanding process as the other grades but offers a better resistance when wet. The strengthened ashless filters are recommended for gravimetric analysis of samples or precipitates' collection.

- filtraTECH's grades: QT51 | QT53 | QT55.
- Available in sheets (F), plain discs (A) or folded discs (P).



QT51	Quantitative filter paper (very fast filtration).				
	Weight (g/m <sup>2</sup> ) DIN 53104	Thickness (mm)	Pore size (µm)	Filtration speed (sec) DIN 53137	Ash content
	84	0.2	25-30	9	<0.01

// Whatman :  
541

QT53	Quantitative filter paper (medium filtration).				
	Weight (g/m <sup>2</sup> ) DIN 53104	Thickness (mm)	Pore size (µm)	Filtration speed (sec) DIN 53137	Ash content
	84	0.2	14-18	55	<0.01

// Whatman :  
540

QT55	Quantitative filter paper (very slow filtration).				
	Weight (g/m <sup>2</sup> ) DIN 53104	Thickness (mm)	Pore size (µm)	Filtration speed (sec) DIN 53137	Ash content
	84	0.17	2-4	195	<0.01

// Whatman :  
542