

# Filter Class

# Grade ULPA 15



## PERFORMANCE TEST OF ULPA FILTER ELEMENT

Code 001.1615  
Ø 320 x 500 mm  
Glass fiber media

Grade >U15 (300 m<sup>3</sup>/h)



**TEST REPORT: NET 200701 - PT1**

August 18<sup>th</sup>, 2020

according to EN 1822-1:2019  
and EN ISO 29463-5:2018

initiated by:

**NETCO srl**

# Filter Class

# Grade ULPA 15

Test report according to EN 1822:2019 (ISO 29463-5:2018)  
Report number: NET 200701 - PT1



## Data tables, new filter element

Table 2: Efficiencies and lower limit of 95%-level of confidence

Particle size [µm]	Efficiency [%]	Efficiency, 95% min [%]	Penetration [%]	Penetration, 95% [%]
0,026	>99,99995	*	<0,00005	*
0,029	>99,99995	*	<0,00005	*
0,034	>99,99995	*	<0,00005	*
0,039	>99,99995	*	<0,00005	*
0,045	>99,99995	*	<0,00005	*
0,052	>99,99995	*	<0,00005	*
0,060	>99,99995	*	<0,00005	*
0,070	>99,99995	99,99991	<0,00005	0,00009
0,081	>99,99995	99,99992	<0,00005	0,00008
0,093	>99,99995	99,99993	<0,00005	0,00007
0,108	>99,99995	99,99993	<0,00005	0,00007
0,124	>99,99995	99,99992	<0,00005	0,00008
0,143	>99,99995	99,99992	<0,00005	0,00008
0,166	>99,99995	99,99992	<0,00005	0,00008
0,191	>99,99995	99,99993	<0,00005	0,00007
0,221	>99,99995	99,99993	<0,00005	0,00007
0,255	>99,99995	99,99993	<0,00005	0,00007
0,294	>99,99995	99,99994	<0,00005	0,00006
0,340	>99,99995	99,99997	<0,00005	0,00003
0,392	>99,99995	99,99996	<0,00005	0,00004
0,453	>99,99995	99,99994	<0,00005	0,00006

Comment: The setup was made for an expected filter grade of H14. But even with 10 scans on the downstream side we got only very less particle counts. In the smaller and larger particle size ranges zero particles were detected. The E95% values are calculated based on the Poisson distribution in which a minimum of 3,7 particles is assumed (instead of 0). Therefore these values >70 nm are not reported. To measure exactly the efficiency in U16 range an other detector with higher sampling volume or a much smaller particle size range would be needed (if using SMPS).