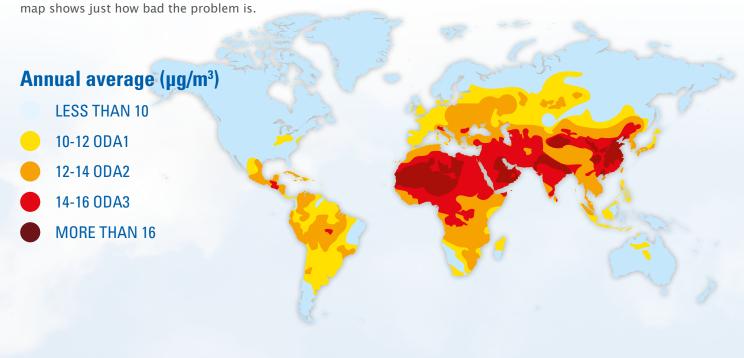


An estimated 92% of the world's population lives in areas where air pollution exceeds safety limits, according to the World Health Organization (WHO), which has released new research showing where the worst – and least – affected places are. This map shows just how bad the problem is.



Supply air, (SUP) = Airflow entering the treated room, or air entering the system after any treatment

- * MIN filtration requirementS ISO ePM1 50%
- ** MIN filtration requirementS ISO ePM2.5 50%

	PM2.5	PM10
ODA1	$\leq 10 \mu g/m^3$	$\leq 20 \mu g/m^3$
ODA2	≤ 15µg/m³	≤ 30µg/m³
ODA3	> 15µg/m³	> 30µg/m³

		ePM1	ePM1	ePM2.5	ePM10	ePM10
		SUP1*	SUP2*	SUP3**	SUP4	SUP5
C	DA1	60%	50%	60%	60%	50%
0	DA2	80%	70%	70%	80%	60%
0	DA3	90%	80%	80%	90%	80%
		Industrial applications with high hygienic demands e.g. like: • hospitals • pharmaceutics • electronics • supply air to clean rooms	Rooms for permanent occupation e.g. like: • kindergarten • offices • hotels • residential • meeting rooms • exhibition halls • conference halls	Rooms with temporary occupation e.g.like: • storage • shopping centres • washing rooms • server rooms • copier rooms	Rooms with short term occupation e.g. like: • rest rooms • storage rooms • stair ways	Rooms without occupation e.g. like: • garbage • data centres • underground car parks
			theatres cinemas concert halls Industrial applications with medium hygienic demands e.g. like: food & beverages production	Industrial applications with low hygienic demand e.g. like: • food & beverages production with low hygienic demand	Industrial applications without hygienic demands e.g. like: • general production areas in automotive industry	Production areas of the heavy industry e.g. like: • steel mill • smelters • welding plants

The ISO 16890 standard is the new worldwide guideline for testing and classifying air filters and has replaced the EN779: 2012 standard.

With the new ISO16890 standard the air filters are divided into four groups. A prerequisite for each group is that a filter captures at least 50% of the appropriate particle size range. If a filter, for example, captures more than 50% of PM1 particles, it will be grouped as an ISO ePM1 filter. The respective efficiency is then reported, rounded in 5 % increments.

On the next page you will see some filters from our assortment classified according to the new ISO16890 standard.

THE BENEFITS OF ISO16890

The new standard offers several improvements when compared to the EN779 Standard:

- One global international standard
- The ISO16890 records their performance at a particle spectrum of 0.3 up to 10 microns (versus the EN779 test which qualified fine filter performance at 0.4 microns)
- Fractional efficiencies of the filter prior to and after IPA discharge of any electrostatic properties can be seen.
- Filters can be chosen for their specific performance related to the need of the application.

Want to learn more about the new ISO16890 standard or need help in choosing the right air filter for the best protection against fine dust?

We're always ready to help you!

The team of AFPRO Filters.



	ISO Coarse	PM10	PM2.5	ePM1
95%				
90%				
85%				HQ98
80%				HPQ-98, CP-F9
75%				
70%				
65%				
60%				HQ85
55%				HPQ-85, CP-F7
50%				ECO70, HQ80
	ISO Coarse	PM10	ePM2.5	PM1
0=0/	130 600156	FIVIO	GF WIZ.J	1 1411
95%				
90% 85%				
80% 75%				
75% 70%			LSB80	
65%			HPQ-65, CP-M6	
60%			nPQ-63, CP-M6	
55%				
			HOCE	
50%			HQ65	
	100 0	- DB#40	DM2 F	DIMA
	ISO Coarse	ePM10	PM2.5	PM1
95%	150 Coarse	erwiiu	PIVIZ.5	PIVIT
90%	150 Coarse	erwiu	PIMZ.5	PINT
90% 85%	ISO Coarse	erwiu	PIVIZ.5	PMI
90% 85% 80%	ISU Coarse		PIVIZ.5	PINT
90% 85% 80% 75%	ISU Coarse	CP-M5	PIVIZ.5	PINT
90% 85% 80% 75% 70%	ISU Coarse		PIVIZ.5	PINT
90% 85% 80% 75% 70% 65%	ISU Coarse	CP-M5	PIVIZ.5	PINT
90% 85% 80% 75% 70% 65% 60%	ISU Coarse	CP-M5	PIVIZ.5	PINT
90% 85% 80% 75% 70% 65% 60% 55%	ISU Coarse	CP-M5	PIVIZ.5	PIVII
90% 85% 80% 75% 70% 65%		CP-M5	PIVIZ.5	PIVII
90% 85% 80% 75% 70% 65% 60% 55%		CP-M5	PM2.5	PM1
90% 85% 80% 75% 70% 65% 60% 55%	ISO Coarse	CP-M5 HQ55, LSB60		
90% 85% 80% 75% 70% 65% 60% 55% 50%		CP-M5 HQ55, LSB60		
90% 85% 80% 75% 70% 65% 60% 55% 50%		CP-M5 HQ55, LSB60		
90% 85% 80% 75% 70% 65% 60% 55% 50%	ISO Coarse	CP-M5 HQ55, LSB60		
90% 85% 80% 75% 70% 65% 60% 55% 50%		CP-M5 HQ55, LSB60		
90% 85% 80% 75% 70% 65% 60% 55% 50%	ISO Coarse HS55, HSB55	CP-M5 HQ55, LSB60		
90% 85% 80% 75% 70% 65% 60% 55% 50% 95% 90% 85% 80% 75% 70% 65%	ISO Coarse HS55, HSB55 HS35, HSB35	CP-M5 HQ55, LSB60		
90% 85% 80% 75% 70% 65% 60% 55% 50% 95% 90% 85% 80% 75% 70% 65% 60%	ISO Coarse HS55, HSB55 HS35, HSB35	CP-M5 HQ55, LSB60		
90% 85% 80% 75% 70% 65% 60% 55% 50% 95% 90% 85% 80% 75% 70% 65% 60%	ISO Coarse HS55, HSB55	CP-M5 HQ55, LSB60		
90% 85% 80% 75% 70% 65% 60% 55% 50%	ISO Coarse HS55, HSB55 HS35, HSB35	CP-M5 HQ55, LSB60		

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