

Air Quality Standards ISO 8573-1

Air Quality Classes encompassing these pollutants have been established in an International Standard ISO 8573.1. These are shown in Tables 3.1A, 3.1B and 3.1C.

Table 3.1A Maximum Particle Size and Concentration of Solid Contaminants

Class	Maximum Particle Size*	Maximum Concentration**
	Microns	mg/m ³
1	0.1	0.1
2	1	1
3	5	5
4	15	8
5	40	10

* Particle size based on a filtration ratio $\beta_{\mu} = 20$.

** At 1 bar (14.5 psia), 20°C (68°F) and a relative vapor pressure of 0.6 (60%).

Table 3.1B Maximum Pressure Dew Point

Class	Class Maximum Pressure Dew Point	
	°C	°F
1	-70	.94
2	-40	-40
3	-20	-4
4	+3	+37.4
5	+7	+44.6
6	+10	+50
7	Not Specified	

Table 3.1C Maximum Oil Content

Class	Maximum Concentration***
	mg/m ³ ****
1	0.01
2	0.1
3	1
4	5
5	25

*** At 1 bar (14.5 psia), 20°C (68°F) and a relative vapor pressure of 0.6 (60%).

**** 1 mg/m³ is a weight of oil in a volume of air and is approximately equal to 0.83 ppm by weight.