

ISO 8573-1:2010  
**One**  
ISO CLASS:1



**PARTICULATES**



**MOISTURE**



**OIL**

**AIRpipe meets ISO 8573-1 Class 1.1.1**

# ISO 8573-1 Compressed Air Cleanliness Class Table

ISO 8573-1:2010 CLASS	PARTICULATES			Mass Concentration mg/m <sup>3</sup>	WATER		OIL	
	Maximum number of particles per m <sup>3</sup>				Vapor Pressure Dewpoint	Liquid g/m <sup>3</sup>		Total Oil (aerosol liquid and vapor) mg/m <sup>3</sup>
	0.1 – 0.5 µm	0.5 – 1 µm	1 – 5 µm					
0	As specified by the equipment user or supplier and more stringent than Class 1							
1	≤ 20,000	≤ 400	≤ 10	–	≤ -70° C	–	0.01	
2	≤ 400,000	≤ 6,000	≤ 100	–	≤ -40° C	–	0.1	
3	–	≤ 90,000	≤ 1,000	–	≤ -20° C	–	1	
4	–	–	≤ 10,000	–	≤ +3° C	–	5	
5	–	–	≤ 100,000	–	≤ +7° C	–	–	
6	–	–	–	< 5	≤ +10° C	–	–	
7	–	–	–	5 - 10	–	≤ 0.5	–	
8	–	–	–	–	–	0.5 - 5	–	
9	–	–	–	–	–	5 - 10	–	
X	–	–	–	> 10	–	> 10	> 10	

ISO 8573-1:2010 specifies purity classes of compressed air with respect to particles, water and oil independent of the location in the compressed air system at which the air is specified or measured.



## ISO 8573-1:2010 (Class 1.1.1)

Bracketed in the above table, AIRpipe meets all Class 1 purity specifications outlined for solid particulates, water and oil.

- **Class 1 Particulates**

In each cubic meter of compressed air, the particulate count should not exceed 20,000 particles in the 0.1 – 0.5 micron size range, 400 particles in the 0.5 - 1 micron size range and 10 particles in the 1 – 5 micron size range.

- **Class 1 Water**

A pressure dew point of -70° C or better is required and no liquid water is allowed.

- **Class 1 Oil**

In each cubic meter of compressed air, not more than 0.01mg of oil is allowed. This is a total level for liquid oil, oil aerosol and oil vapor.