






# Compressed Air Quality Class

## Air Quality Class Recommendation for Textile, Engineering, Painting, Powder Coating and Chemical Industries as per Pneurop Standard

Applications	Air Quality Class ISO	Recommended Layout
Blow Room, Carding, Lapping, Comber, Draw Frame, Speed & Ring Frames	ISO 4.3.3	 <b>ISO 4.3.3 / ISO 2.2.2 / ISO 2.2.3</b>
Auto Coner	ISO 2.2.2	
Testing Lab	ISO 2.2.2	
Cleaning of Machines	ISO 4.4.4	 <b>ISO 4.4.4 / ISO 3.4.3</b>
Air Motors, Miniature	ISO 3.3(1),3	
Construction Equipments	ISO 4.5.5	 <b>ISO 3.3.3 / ISO 2.3.2 / ISO 3.2.3</b>
Conveying granular products	ISO 3.4.3	
Conveying Powder products	ISO 2.3.2	
Industrial Hand / Machine Tools	ISO 4.3.5	 <b>ISO 4.5.5 / ISO 4.4.5 / ISO 4.4.6</b>
Foundry Machines	ISO 4.4.5	
Pneumatic Cylinders	ISO 3.3.5	
Precision Pressure Regulators	ISO 3.2.3	 <b>ISO 4.3.5 / ISO 3.3.5</b>
Process Control Instruments	ISO 2.2.3	
Workshop air general	ISO 4.4.6	
Painting & Powder Coating	ISO 3.3.3	

## ISO 8573.1-2010 Air Quality Classes

Class	Solid Particulate			Water		Oil Total Oil (aerosol liquid and vapour) mg/m <sup>3</sup>
	Max. number of particulate	Mass Concentration mg/m <sup>3</sup>	Vapour Pressure Dewpoint	Liquid g/m <sup>3</sup>		
	0.1 - 0.5 micron				0.5 - 1 micron	
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

Refrigeration Type Air Dryers

Adsorption Type Air Dryers