



PRACTICAL ISO 8573-1:2010 COMPRESSED AIR/GAS TESTING  
GENERAL GUIDELINES AND TESTING

ISO 8573-1:2010 SECTION IF APPLICABLE	TESTING DESCRIPTION	DIRECT PRODUCT CONTACT	INDIRECT PRODUCT CONTACT	VIABLE MICROBIOLOGICAL
↓	↓	ISO 8573-1 [6:2:3]+Gases	ISO 8573-1 [6:4:3]+Gases	Non-ISO 8573-1 Methodology
5.2 Particles	Solid Particles by Mass	≤5 mg/m <sup>3</sup> Class 6 <b>Note 1</b>	≤5 mg/m <sup>3</sup> Class 6 <b>Note 1</b>	NA
5.3 Humidity	Pressure Dew Point	≤ -40°F @100psi Class 2 <b>Note 2</b>	≤ 37°F @100psi Class 4 <b>Note 3</b>	NA
5.4 Oil	Liquid or Aerosol Oils (oil mist) by Mass	≤1 mg/m <sup>3</sup> Class 3 <b>Note 4</b>	≤1 mg/m <sup>3</sup> Class 3 <b>Note 4</b>	NA
5.5 Gaseous Contaminates	Gaseous Hydrocarbons	≤2 ppm	≤5 ppm	NA
	Halogenated Hydrocarbons	≤1 ppm <b>Note 5</b>	≤5 ppm <b>Note 5</b>	
5.6 Microbiological Contaminates	Enumeration of Mold and Bacteria (cultured in lab after collection)	NA	NA	≤50 cfu/m <sup>3</sup> <b>Note 6</b>
TRI Air Testing Test Item # →	No Specification Comparisons on Analytical Report. (Baseline)	IND	INI	MI
TRI Air Testing Test Item # →	Specification Comparisons on Analytical Report	ISD	ISI	NA

**Note 1:** TRI Air Testing can provide particulate analysis results to much lower amounts than ISO 8573-1 Class 6 of ≤5 mg/m<sup>3</sup> such as ≤0.1 mg/m<sup>3</sup>. TRI does not provide or perform particle size or count. This should be performed on site by a trained specialist with calibrated equipment.

**Note 2:** Requires desiccant dryer system for compressed air or dry supplied gases. Dew points at other line pressures may be reported upon request.

**Note 3:** Requires refrigerated dryer system for compressed air or dry supplied gases. Dew points at other line pressures may be reported upon request.

**Note 4:** TRI Air Testing can provide oil analysis results to much lower amounts than ISO 8573-1 Class 4 of ≤1 mg/m<sup>3</sup> such as ≤0.1 mg/m<sup>3</sup> but does not include oil vapor results.

**Note 5:** Suggested values only. ISO 8573-1 section 5.5 Gaseous Contaminates does not have classes listed but gaseous contaminants can be an indicator of contamination entering or in an air/gas supply system by volatile materials such as cleaners or degreasers.

**Note 6:** Suggested values only. ISO 8573-1 section 5.6 Microbiological Contaminates does not have classes. TRI offers an alternative test method to those called out in ISO 8573-7. The TRI method has a reporting limit of <50 cfu/m<sup>3</sup>. It's not suitable for all users and may not be appropriate for your company's requirements. For more information see [www.airtesting.com/wp-content/uploads/2012/10/Mold-and-Bacteria-Testing-Overview-10-15-12.pdf](http://www.airtesting.com/wp-content/uploads/2012/10/Mold-and-Bacteria-Testing-Overview-10-15-12.pdf)

**NA means not applicable or not available.**