



SGS GAS Ensuring Clean & Compliant Compressed Air

SGS Gas Analysis Services (SGS GAS) is part of the SGS group. At SGS GAS, we specialise in on-site compressed air testing to ensure compliance with ISO 8573-1 standards. Our expert team provides reliable and accurate assessments to help industries maintain air quality for critical applications.

GAS

Member of the SGS Group



WHY ISO 8573-1 COMPLIANCE MATTERS?

ISO 8573-1 is the international standard for measuring compressed air purity, ensuring contaminants like particulates, water and oil are within acceptable limits. Compliance helps businesses:

- Prevent equipment failure and contamination
- Meet industry regulations and quality standards
- Ensure product integrity in food, pharmaceutical and manufacturing sectors

OUR TESTING SERVICES

We offer comprehensive onsite testing, including:

- Particulate Testing – Measurement of solid contaminants in compressed air using high-precision particle counters

- Dew Point Testing – Ensuring moisture levels meet required specifications through advanced dew point analysers
- Oil Contamination Testing – Detection of oil aerosols and vapours to prevent contamination
- Class 1 Oil Testing – We perform highly sensitive testing for Class 1 oils in compliance with ISO 8573 using Thermal Desorption Tubes for on site sampling and analyse by TD-GC-MS for precise identification and quantisation of oil contaminants
- Microbial Testing – Enumeration and evaluation of bacteria and mould in compressed air systems (if applicable), ensuring sterile environments in critical industries

INDUSTRIES WE SERVE

Our services are ideal for:

- Food & Beverage
- Pharmaceuticals
- Manufacturing
- Automotive
- Medical & Healthcare

WHY CHOOSE SGS GAS?

- Onsite Testing for Minimal Downtime
- Accurate & Reliable Results
- Experienced & Certified Technicians
- Fast Reporting & Compliance Documentation
- Result Trends to Forecast Issues Prior to Occurrence

CONTACT US

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Class ^b	Number of particles, d ^a - counts/m ³		
	0.1 µm < d ≤ 0.5µm	0.5 µm < d ≤ 1.0µm	1.0 µm < d ≤ 5.0µm
0	Site specific		
1	≤ 20 000	≤ 400	≤ 10
2	≤ 400 000	≤ 6 000	≤ 100
3	N/A	≤ 90 000	≤ 1 000
4	N/A	N/A	≤ 10 000
5	N/A	N/A	≤ 100 000
Class	Mass concentration ^c - Cp - mg/m ³		
6 ^c	0 < Cp ≤ 5		
7 ^c	5 < Cp ≤ 10		
X	Cp > 10		

Class	Pressure dewpoint °C
0	Site specific
1	≤ -70
2	≤ -40
3	≤ -20
4	≤ +3
5	≤ +7
6	≤ +10
Class	Water ^a - Cw - g/m ³
7	Cw ≤ 0.5
8	0.5 < Cw ≤ 5
9	5 < Cw ≤ 10
X	Cw > 10

Class	Total oil ^a mg/m ³
0	Site specific
1	≤ 0.01
2	≤ 0.1
3	≤ 1
4	≤ 5
X	> 5

a. At reference conditions; see Clause 4

b. To qualify for a class designation, each size range and particle number within a class shall be met

c. See A.3.2.2

GAS ANALYSIS SERVICES IS NOW PART OF SGS, THE WORLD'S LEADING TESTING, INSPECTION AND CERTIFICATION COMPANY.

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