Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **K 064**

of **Scott Specialty Gases Netherlands B.V.**
Calibration Laboratory

This annex is valid from: **01-07-2026** to **01-05-2029** Replaces annex dated: **18-03-2026**

Location(s) where activities are performed under accreditation

Head Office

Takkebijsters 46 - 48
4817 BL
Breda
The Netherlands

Location	Abbreviation/ location code
Takkebijsters 46 – 48 4817 BL Breda The Netherlands	Br

HCS code	Measured quantity, Instrument, Measure	Range Amount fractions (mol/mol)[2)]	CMC[1)] Relative uncertainties	Remarks / Internal Instructions	Location
RM 2 0	**Gas mixtures**				
	Binary mixtures ISO 6143 and ISO 33405				
	NO in N_2	$(1\cdot10^{-6} – 5\cdot10^{-6})$ $(5\cdot10^{-6} – 0.1\cdot10^{-2})$	2.0 % 1.0 %		Br
	NO_2 in Air	$(3\cdot10^{-6} – 100\cdot10^{-6})$ $(100\cdot10^{-6} – 0.1\cdot10^{-2})$	2.0 % 1.0 %		
	NO_X in N_2	$(3\cdot10^{-6} – 5\cdot10^{-6})$ $(5\cdot10^{-6} – 100\cdot10^{-6})$	2.0 % 1.0 %	(measured as NO)	
	O_2 in N_2	$(0.4\cdot10^{-2} – 1.0\cdot10^{-2})$ $(1.0\cdot10^{-2} – 25\cdot10^{-2})$	2.0 % 1.0 %		

This annex has been approved by the Board of the Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

[1] Calibration and Measurement Capability (CMC): Demonstrated measurement uncertainty, with coverage probability of 95%, in a given measurement point or measurement range. Measurement uncertainty, *U*, is calculated according to EA-4/02 "*Evaluation* of the Uncertainty of Measurement in Calibration".

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HCS code	Measured quantity, Instrument, Measure	Range Amount fractions (mol/mol)[2)]	CMC[1)] Relative uncertainties	Remarks / Internal Instructions	Location
	CO in N_2	($1.5 \cdot 10^{-2}$ – $15 \cdot 10^{-2}$)	1.0 %		Br
	CO_2 in N_2	($5 \cdot 10^{-2}$ – $25 \cdot 10^{-2}$)	1.0 %		
	SO_2 in N_2	($25 \cdot 10^{-6}$ – $50 \cdot 10^{-6}$) ($50 \cdot 10^{-6}$ – $0.3 \cdot 10^{-2}$)	2.0 % 1.0 %		
	Natural Gas Mixtures ISO 6143 and ISO 33405				
	CH_4	($70 \cdot 10^{-2}$ – $92.5 \cdot 10^{-2}$)	0.1 %		Br
	C_2H_6	($0.3 \cdot 10^{-2}$ – $11 \cdot 10^{-2}$)	1.0 %		
	C_3H_8	($0.1 \cdot 10^{-2}$ – $0.5 \cdot 10^{-2}$) ($0.5 \cdot 10^{-2}$ – $5 \cdot 10^{-2}$)	2.0 % 1.0 %		
	iso-C_4H_{10}	($0.05 \cdot 10^{-2}$ – $1 \cdot 10^{-2}$)	1.0 %		
	n-C_4H_{10}	($0.03 \cdot 10^{-2}$ – $1 \cdot 10^{-2}$)	1.0 %		
	neo-C_5H_{12}	($0.005 \cdot 10^{-2}$ – $0.01 \cdot 10^{-2}$) ($0.01 \cdot 10^{-2}$ – $0.45 \cdot 10^{-2}$)	3.0 % 2.0 %		
	iso-C_5H_{12}	($0.005 \cdot 10^{-2}$ – $0.02 \cdot 10^{-2}$) ($0.02 \cdot 10^{-2}$ – $0.5 \cdot 10^{-2}$)	2.0 % 1.0 %		
	n-C_5H_{12}	($0.005 \cdot 10^{-2}$ – $0.02 \cdot 10^{-2}$) ($0.02 \cdot 10^{-2}$ – $0.6 \cdot 10^{-2}$)	2.0 % 1.0 %		
	n-C_6H_{14}	($0.005 \cdot 10^{-2}$ – $0.02 \cdot 10^{-2}$) ($0.02 \cdot 10^{-2}$ – $0.03 \cdot 10^{-2}$) ($0.03 \cdot 10^{-2}$ – $0.4 \cdot 10^{-2}$)	3.0 % 2.0 % 1.0 %		
	CO_2	($0.05 \cdot 10^{-2}$ – $0.6 \cdot 10^{-2}$) ($0.6 \cdot 10^{-2}$ – $9 \cdot 10^{-2}$)	3.0 % 1.0 %		
	N_2	($0.1 \cdot 10^{-2}$ – $0.6 \cdot 10^{-2}$) ($0.6 \cdot 10^{-2}$ – $20 \cdot 10^{-2}$)	2.0 % 1.0 %		
	Biomethane Mixtures ISO 6143 and ISO 33405				
	CH_4	($82.5 \cdot 10^{-2}$ – $99.6 \cdot 10^{-2}$)	0.1 %		Br
	CO_2	($0.05 \cdot 10^{-2}$ – $0.6 \cdot 10^{-2}$) ($0.6 \cdot 10^{-2}$ – $11 \cdot 10^{-2}$)	3.0 % 1.0 %		
	H_2	($0.1 \cdot 10^{-2}$ – $0.6 \cdot 10^{-2}$) ($0.6 \cdot 10^{-2}$ – $3.5 \cdot 10^{-2}$)	3.0 % 1.0 %		

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HCS code	Measured quantity, Instrument, Measure	Range Amount fractions (mol/mol)[2)]	CMC[1)] Relative uncertainties	Remarks / Internal Instructions	Location
	N_2	$(0.1\cdot10^{-2} – 0.6\cdot10^{-2})$ $(0.6\cdot10^{-2} – 3.5\cdot10^{-2})$	3.0 % 1.0 %		Br
	O_2	$(0.1\cdot10^{-2} – 0.3\cdot10^{-2})$ $(0.3\cdot10^{-2} – 1.5\cdot10^{-2})$	4.0 % 2.0 %		
Calculated values for Physical Properties ISO 6976[3)]					
	Molar mass	$N_2 < 20\cdot10^{-2}$ $CO_2 < 9\cdot10^{-2}$ $C_2H_6 < 11\cdot10^{-2}$ other components $< 5\cdot10^{-2}$ $CH_4 < 92.5\cdot10^{-2}$	0.1 %		Br
	Compression factor		0.1 %		
	Gross Calorific value		0.1 %		
	Relative Density		0.1 %		
	Density		0.1 %		
	Gross Wobbe Index		0.1 %		
Calibration Gas for Motor Vehicle Exhaust Emission Measurements [4)] ISO 6143 and ISO 33405					
	C_3H_8	$(72\cdot10^{-6} – 660\cdot10^{-6})$ $(660\cdot10^{-6} – 3740\cdot10^{-6})$	2.0 % 1.0 %		Br
	CO	$(0.225\cdot10^{-2} – 5.5\cdot10^{-2})$	1.0 %		
	CO_2	$(2.7\cdot10^{-2} – 15.4\cdot10^{-2})$	1.0 %		
	O_2	$(0.45\cdot10^{-2} – 1.5\cdot10^{-2})$ $(1.5\cdot10^{-2} – 22.99\cdot10^{-2})$	2.0 % 1.0 %		
	N_2	Balance gas			
Calibration Gas for Marine Exhaust Emission Measurements [4)] ISO 6143 and ISO 33405					
	CO_2	$(5\cdot10^{-2} – 25\cdot10^{-2})$	1.0 %		Br
	SO_2	$(25\cdot10^{-6} – 50\cdot10^{-6})$ $(50\cdot10^{-6} – 0.3\cdot10^{-2})$	2.0 % 1.0 %		
	N_2	Balance Gas			

1) Calibration and Measurement Capability (CMC): Demonstrated lowest possible expanded measurement uncertainty, available to customers under normal conditions, with coverage probability of 95 %, in a given measurement point or measurement range. Measurement uncertainty, *U*, is calculated according to EA-4/02 "Expression of the Uncertainty of Measurement in Calibration".

2) The composition of the mixtures is being certified, prepared and analysed as mole fraction. Conversion calculations into volume fractions are performed in conformance with ISO 14912.

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[3] Calibration and Measurement Capability (CMC): Demonstrated measurement uncertainty, with coverage probability of 95 %, in a given measurement point or measurement range. Measurement uncertainty, *U*, is calculated according to ISO 6976.
[4] During conversion into volume fractions the following reference conditions are used: Temperature: 15 °C and pressure: 100 kPa.