

### CN Food Contact Material GB 4806 Declaration of Compliance

Company Endress+Hauser Conducta GmbH+Co. KG

Dieselstraße 24, 70839 Gerlingen, Germany

as a manufacturer of products for liquid analysis declares, that the product

#### Product Smartec CLD18

Regulations We declare that the above named product conforms to following Chinese National Food Safety

Standards as listed below and is therefore **suitable for food contact**:

GB 4806.1-2016	General safety requirements for food contact materials and products
GB 31603-2015	General hygienic specifications for production of food contact materials
	and articles
GB 9685-2016	Standard for uses of additives in food contact materials and their
	products
GB 4806.7-2023	Plastic materials and articles in contact with food
GB 4806.9-2023	Metal materials and products for food contact
GB 4806.11-2023	Rubber materials and products for food contact

Traceability of product in accordance with regulation GB 31603-2015 is assured by means of serial number on sensor.

#### The following process contact parts are used:

Process contact part	Extended order code	Material group	Material
Sensor housing	CLD18-****	Plastic	PEEK
O-ring	CLD18-****	Rubber	EPDM
	CLD18-*bbb		
Process Connection	bbb≠GCP/LQP/MOP	Metal	Stainless steel 1.4435

# Conditions of intended use

For use in accordance with product specifications.

Specification for intended use or limitations:

• kinds of food: aqueous, acidic, alcoholic with ≤ 50 % EtOH, lacteal,

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- repeated use,
- condition of use: using time ≤ 4 hours at T ≤ 121 °C,
- tested ratio of food contact surface to food mass of
  - o plastic: 6 dm<sup>2</sup>/kg,
  - o rubber: 2 dm<sup>2</sup>/kg,
  - o metal: 6 dm<sup>2</sup>/kg.



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Further information

#### Plastic:

PEEK, Polyether ether ketone, 聚醚醚酮

Test		Limit	Assessment	Method and conditions of verifying compliance
Overall migrati	on [mg/dm²]			, <u>, , , , , , , , , , , , , , , , , , </u>
Acetic acid 4 %	100 °C, 4 h	≤ 10	Pass	GB 31604.8-2021
Ethanol 10 %	100 °C, 4 h	≤ 10	Pass	GB 31604.8-2021
Ethanol 95 %	60 °C, 6 h	≤ 10	Pass	GB 31604.8-2021
Isooctane	60 °C, 4 h	≤ 10	Pass	GB 31604.8-2021
Other [mg/kg]				
KMNO <sub>4</sub> consum	ption			
Water	60°C, 2 h	≤ 10	Pass	GB 31604.2-2016
Heavy metal mig	gration (as Pb)			
Acetic acid 4 %	60 °C, 2 h	≤ 1	Pass	GB 31604.9-2016
Migration of 4,4				
Difluorobenzoph	ienone	≤ 0.05	Pass	LC-MS/MS
Acetic acid 4 %	100 °C, 4 h			
	40 °C, 10 d			
Ethanol 10 %	reflux, 4 h			
	40 °C, 10 d			
Ethanol 95 %	60 °C, 6 h			
_	40 °C, 10 d			
Isooctane	60 °C, 4 h			
20 °C, 2 d				
Migration of Hy		≤ 0.6	Pass	GB 31604.1-2015
Acetic acid 4 %	100 °C, 4 h			GB 5009.156-2016
T.1 1100/	40 °C, 10 d			
Ethanol 10 %	100 °C, 4 h			
Ed. 105.2	40 °C, 10 d			
Ethanol 95 %	60 °C, 6 h			
T .	40 °C, 10 d			
Isooctane	60 °C, 4 h			
	20 °C, 2 d			

The sensory tests for PEEK according to GB 4806.7-2023 Table 1 have been passed.

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The PEEK material does not contain any primary aromatic amines according to Table 2 of GB 4806.7-2023.

#### Rubber:

EPDM, Ethylene propylene diene monomer rubber, 三元乙丙橡胶

Test		Limit	Assessment	Method and conditions of verifying compliance
Overall migrat	ion [ma/dm²]	Lillit	Assessment	or vernying compilance
Overall illigrati	անուլուց/այույ			
Acetic acid 4 %	100 °C, 4 h	≤ 10	Pass	GB 31604.8-2016
Ethanol 10 %	100 °C, 4 h	≤ 10	Pass	GB 31604.8-2016
Ethanol 50 %	reflux, 4 h	≤ 10	Pass	GB 31604.8-2016
Other [mg/kg]				
KMNO <sub>4</sub> consum	ption			
Water	60°C, 0.5 h	≤ 10	Pass	GB 31604.2-2016
Heavy metal migration (as Pb)				
Acetic acid 4 %	60°C, 0.5 h	≤ 1	Pass	GB 31604.9-2016



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The sensory tests for EPDM according to GB 4806.11-2023 Table 1 have been passed.

The EPDM material does not contain any primary aromatic amines, N-nitrosamines or products resulting from these according Table 2 of GB 4806.11-2023.

#### Metal:

Stainless steel, 不锈钢: 1.4435, AISI 316L

Test	Limit	Assessment	Method and conditions of verifying compliance
Content of impurity [%]			<del>, , , ,</del>
Lead (Pb)	≤ 0.01	Pass	GB/T 37837-2019
Cadmium (Cd)	≤ 0.01	Pass	GB/T 37837-2019
Arsenic (As)	≤ 0.01	Pass	GB/T 37837-2019
Specific Migration [mg/kg]			
Arsenic (As) Artificial tap water 100 °C, 4h 5g/L Citric acid 100 °C, 4h	≤ 0.002	Pass	GB 31604.49-2023
Cadmium (Cd) Artificial tap water 100 °C, 4h 5g/L Citric acid 100 °C, 4h	≤ 0.002	Pass	GB 31604.49-2023
Lead (Pb) Artificial tap water 100 °C, 4h 5g/L Citric acid 100 °C, 4h	≤ 0.01	Pass	GB 31604.49-2023
Antimony (Sb) Artificial tap water 100 °C, 4h 5g/L Citric acid 100 °C, 4h	≤ 0.04	Pass	GB 31604.49-2023
Chrome (Cr) Artificial tap water 100 °C, 4h 5g/L Citric acid 100 °C, 4h	≤ 0.25	Pass	GB 31604.49-2023
Manganese (Mn) Artificial tap water 100 °C, 4h 5g/L Citric acid 100 °C, 4h	≤ 2.0	Pass	GB 31604.49-2023
Molybdenum (Mo) Artificial tap water 100 °C, 4h 5g/L Citric acid 100 °C, 4h	≤ 0.12	Pass	GB 31604.49-2023
Nickel (Ni) Artificial tap water 100 °C, 4h 5g/L Citric acid 100 °C, 4h	≤ 0.14	Pass	GB 31604.49-2023

The sensory tests of GB 4806.9-2023 Table 1 were passed.

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### **Declaration**



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Additional information

Non-intentionally added substances (NIAS):

To the best of our knowledge, no non-intentionally added substances (NIAS) are present in the product. Furthermore, our evaluation shows no production processes that add or yield not regulated substances or NIAS in a relevant and/or harmful amount. However, we cannot rule out the presence of NIAS in principle.

Remarks

The product has to be cleaned before use.

This declaration of compliance is to emphasize that the customer is obliged to test the product with regard to its suitability in the application. This declaration of compliance is only valid for the listed product as supplied to customer.

For technical special products (TSP, model designation with modification no.) a declaration of compliance is available upon additional request.

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