

Company Endress+Hauser Flowtec AG, Christoph Merian – Ring 4, 4153 Reinach, Switzerland
being the manufacturer, declares that the following materials used in

Product Teqwave H

product	Teqwave H, D9HB**-, OD9HB**-		
product contact part	material group	material	applicable to order code options
sensor tube	metal	1.4404/316L	feature 060: option: AB
seal	elastomer	VMQ (silicone)	feature 065*: option: H
process connection	metal	1.4404/316L	feature 070: option: AA, DA, DB, DC, DD, DE, FA, IA, IB, SA

Spare parts

product	Teqwave H, Mounting and Seal Set, DK9H**-		
product contact part	material group	material	applicable to order code options
process connection	metal	1.4404/316L ¹⁾	feature 020: option: AA, DA, DB, DC, DD, DE, FA, IA, IB, SA
seal	elastomer	VMQ (silicone) ³⁾	feature 030*: option: H

are in conformity with following Chinese Regulations where applicable:

Regulations	GB 4806.1-2016	General Safety Requirements for Food Contact Materials and Products
	GB 9685-2016	Standard for Uses of Additives in Food Contact Materials and Articles
	GB 4806.9-2023	Food Contact Metal Materials and Products
	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.

* For further seal options applicable to order code options please refer to Annex II.

Conditions For use in accordance with product specifications.

Specifications for intended use or limitations:

The material is suitable for the use in applications with the following types of food:

All kinds of food (Aqueous, acidic, alcoholic, lacteal, fatty and oily food)

Duration and temperature of treatment and storage for contact with food:

$T_M \leq 120 \text{ °C}, \leq 1\text{h}$

Relation of surface in contact with food and volume, the conformity of the material or articles is based upon:

For each component different. Consideration of whole product range.

Simulants and test conditions: see Annex for details.

No Primary aromatic amines were detected after migration.

Non-intentionally added substances (NIAS):

To the best of our knowledge, no 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.

This is to emphasize that the customer is obliged to verify the suitability of our products with regard to the intended application. This declaration of conformity is only valid for standard products in their delivery status produced before December 31st, 2026.

Reinach, 01.12.2024
Endress+Hauser Flowtec AG


Dr. M. Lehmann
(Managing Director)


ppa. Dr. C. Jarms
(Head of Division Quality Management)

Annex I:

Stainless steel 1.4404/316L, 不锈钢

Physicochemical index

Test of metal impurities	Limit mg/kg	Assessment	Methods and conditions for verifying compliance
Arsenic (As)	≤0.002	Pass	Test method GB 31604.49-2023 5g/l citric acid, 100°C, 2h, 3 rd time Tested ratio of food contact surface to mass of food: 6 dm ² /kg
Cadmium (Cd)	≤0.002	Pass	
Lead (Pb)	≤0.01	Pass	
Antimony (Sb)	≤0.04	Pass	

Test of alloy components	Limit mg/kg	Assessment	Methods and conditions for verifying compliance
Aluminium (Al)	≤1	Pass	Test method GB 31604.49-2023 5g/l citric acid, 100°C, 2h, 3 rd time Tested ratio of food contact surface to mass of food: 6 dm ² /kg
Chromium(Cr)	≤0.25	Pass	
Cobalt (Co)	≤0.02	Pass	
Copper (Cu)	≤4	Pass	
Manganese (Mn)	≤2.0	Pass	
Molybdenum (Mo)	≤0.12	Pass	
Nickel (Ni)	≤0.14	Pass	
Tin (Sn)	≤100	Pass	
Zinc (Zn)	≤5	Pass	

Material and Sensory requirements according to GB 4806.9-2023 were passed.

Annex II:

Seals

Seals supplied with the product are supplied by 3rd party.

In lack of a Declaration of Compliance from supplier for EPDM, Endress+Hauser Flowtec AG had carried out migration tests for these parts according to following conditions.

EPDM 三元乙丙橡胶

Teqwave H; Feature: 065; Option: F

Spare Part Seal, Feature 030: Option: F

Physicochemical index

Test	Limit mg/kg	Assessment	Test requirement source	Methods and conditions for verifying compliance
Overall migration, mg/dm²				
4% (v/v) acetic acid, 100°C, 2h	≤10	Pass	GB 4806.11-2023	Test method GB 31604.8-2021
10% (v/v) ethanol, reflux, 2h	≤10	Pass		
50% (v/v) ethanol, reflux, 2h	≤10	Pass		
Quantity of KMnO₄ consumed, mg/kg				
Distilled water, 60°C, 0.5h	≤10	Pass	GB 4806.11-2023	Test method GB 31604.2-2016
Heavy metal (as Pb), mg/kg				
4% (v/v) acetic acid, 60°C, 0.5h	≤1	Pass	GB 4806.11-2023	Test method GB 31604.9-2016

FKM 氟橡胶

Teqwave H; Feature: 065; Option: G

Spare Part Seal, Feature 030: Option: G

Physicochemical index

Test	Limit mg/kg	Assessment	Test requirement source	Methods and conditions for verifying compliance
Overall migration, mg/dm²				
4% (v/v) acetic acid, 100°C, 2h	≤10	Pass	GB 4806.11-2023	Test method GB 31604.8-2021
10% (v/v) ethanol, reflux, 2h	≤10	Pass		
50% (v/v) ethanol, reflux, 2h	≤10	Pass		
Quantity of KMnO₄ consumed, mg/kg				
Distilled water, 60°C, 0.5h	≤10	Pass	GB 4806.11-2023	Test method GB 31604.2-2016
Heavy metal (as Pb), mg/kg				
4% (v/v) acetic acid, 60°C, 0.5h	≤1	Pass	GB 4806.11-2023	Test method GB 31604.9-2016

VMQ (Silicone) 乙烯基甲基硅橡胶

Teqwave H; Feature: 065; Option: H

Spare Part Seal, Feature 030: Option: H

Physicochemical index

Test	Limit mg/kg	Assessment	Test requirement source	Methods and conditions for verifying compliance
Overall migration, mg/dm²				
4% (v/v) acetic acid, 100°C, 2h	≤10	Pass	GB 4806.11-2023	Test method GB 31604.8-2021
10% (v/v) ethanol, reflux, 2h	≤10	Pass		
50% (v/v) ethanol, reflux, 2h	≤10	Pass		
Quantity of KMnO₄ consumed, mg/kg				
Distilled water, 60°C, 0.5h	≤10	Pass	GB 4806.11-2023	Test method GB 31604.2-2016
Heavy metal (as Pb), mg/kg				
4% (v/v) acetic acid, 60°C, 0.5h	≤1	Pass	GB 4806.11-2023	Test method GB 31604.9-2016