

HYDAC FILTERTECHNIK GMBH

Industriegebiet, Werk 8, Labor,
D- 66280 Sulzbach/ Saar
Telefon (06897/ 509-272) Telefax (06897/ 509-760)
e-mail: labor.filtertechnik@hydac.com

Clarification form for the analysis of technical cleanliness of components

Analysis acc. to ISO 16232 and VDA volume 19

1 Hydac Office: _____ Employee: _____

2 **Customer:** _____

3 Contact person: _____ Phone: _____ e-mail: _____

4 Order No. _____ Cost Centre/Address for account _____

5 Report: Paper (Post): e-mail:

6 **Component description:** _____ Type Code: _____

7 Manufacturer: _____ Drawing-No: _____

8 Functional description: _____

9 New Part Field application:

after test stand <input type="checkbox"/>	after cleaning plant <input type="checkbox"/>	after assembly <input type="checkbox"/>	miscellaneous <input type="checkbox"/>	Operating hours/km/years: _____
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10 Prior test? no yes Lab report no. _____

11 Test specification available? no yes No. _____

12 Are we allowed to get in touch with the producer concerning component relevant questions/test methods?
no yes Contact person: _____

Address of producer: _____

13 Data for analysis:

14 Quantity of components: _____ Component quantity per membrane: _____

15 Surfaces to be analyzed: Complete component Partial area Inner surfaces
Quantity: _____

16 Special geometry _____
(e. g. check valve, baffles, cross-section constriction etc.)

17 Average pore size of membrane 5 μm 8 μm miscellaneous: _____ μm

18 Cascade 1st membrane: _____ μm 2nd membrane: _____ μm 3rd membrane: _____ μm

19 Test parameters to be applied:

ultrasonic
 spraying
 flushing
 shaking

volume (total)	pressure
_____	_____
_____	_____
_____	_____

20 **Analytical method:**

gravimetry (1)
 Light microscopic particle counting (2)
 REM-EDX particle counting (3)

21 **Destination of components after analysis:**

Return to the customer (*)
 Pickup by the customer
 Scrapping through Hydac

(*) Costs for packaging and transport are for the customer's account.

22 **Remarks/Additions:**

23 **Note concerning packaging of the components:**

Since packaging affects the test result, it is advisable to pack the units into new clean plastic bags. The plastic bags are to be closed immediately in order to exclude contamination from the outside. Packaging and dispatch are to be selected in such a way that mechanical influences on the component (friction, impact) are avoided. The units are to be delivered completely empty (without operating medium). Should you have further questions please contact 06897-509-272 or labor.filtertechnik@hydac.com. Our lab staff will happily advise you.

- (1) Determination of total mass through difference weighing of the membrane
 (2) Automatic particle counting with a Leica light optical microscope and Q-clean software in the size ranges acc. to VDA, volume 19.
 (3) Automatic particle counting with a scanning electron microscope and determination of the material particle composition through an EDX-analysis.