

CLASSIFICATION REPORT

Established according to the article 5 of the Department State Order dated 21 November 2002

VALIDITY 5 YEARS from 03 April 2025

N° P248721 - DEC/2

and appendix of 3 pages

Material submitted by: Norres Schlauchtechnik GmbH
12-16 Am Stadthafen
45881 GELSENKIRCHEN
Germany

Commercial trademark: AIRDUC® PUR 352 SE

Brief description:

Global composition : Profile hose, hose composed of a spring metal coated with a flame retardant polyurethane film.

End-use: Flexible hose / ducting for high throughput of abrasive powder, bulk material, granulate and for gases. Industrial and municipale wastewater treatment plant, pressure diffusion with fine bubbles, oxigen input for nitrification in active basins, permanent and intermittend ventilation.

Mass per unit volume: (886 ± 89) kg/m³ (determined by LNE)

Thickness (3,90 ± 0,39) mm (determined by LNE)

Colour: Transparent

Test report: N° P248721 - DEC/2 dated 03 April 2025

Type of tests: Determination of classification according to NF P 92-507 (February 2004)
Radiation test according to NF P 92-501 (December 1995), Test used for thermalmelting materials according to NF P 92-505 (December 1995)

Classification:

M3

VALID FOR ANY APPLICATION FOR WHICH THE PRODUCT IS NOT SUBJECT TO CE MARKING

Durability of classification (NF P 92-512 : 1986): A PRIORI UNLIMITED

In view of criteria resulting from the tests described in the appended Test Report N° P248721 - DEC/2. To determine the classification, uncertainty on the results has not been taken into account.

The indicated classification prejudices in no way the conformity of the materials commercialized to the samples submitted to the tests and can in no way be considered as a certificate of qualification. This is not a product certification according to the L115-27 article of the consumption code and to the law dated on 3rd June 1994.

Is allowed only the integral reproduction of either this classification report consisting of this unique page, or the whole classification report with the annexed test report consisting of **4 pages**.

Trappes, April 03, 2025



The Head of Fire Behaviour and Fire Safety Department



Thibaut CORNILLON

Traduction du Document P248721 - DEC/1 réalisée par le LNE. La version en langue française fait foi

TEST REPORT

Established according to the article 5 of the Department State Order dated on 21 november 2002

VALIDITY 5 YEARS FROM 03 April 2025

N° P248721 - DEC/2

1. PURPOSE OF TEST

The purpose of tests to which this report relates is to determine the classification of materials, in accordance with the stipulations in the order from the Ministère de l'Intérieur, dated on 21 November 2002 relating to their reaction to fire.

2. ORIGIN AND CHARACTERISTICS OF SAMPLES

Characteristics attested by sponsor :

The validity of the results may be affected by this information. For these results, LNE's responsibility is limited to its contribution to their elaboration.

Test requested by : Norres Schlauchtechnik GmbH
Date and reference of order : Your agreement from 28/02/2025 on quotation n° DEV2501216-V1
Producer : Norres Schlauchtechnik GmbH
12-16 Am Stadthafen
45881 GELSENKIRCHEN
Germany
Trademark (commercial reference) : AIRDUC® PUR 352 SE
Global composition : Profile hose, hose composed of a spring metal coated with a flame retardant polyurethane film.

Mass per unit volume : 1140 kg/m³

Thickness : 0,85 mm

Colour : Transparent

Caractéristiques déterminées par LNE :

Mass per unit volume : (886 ± 89) kg/m³

Thickness : (3,90 ± 0,39) mm

Colour : Transparent



3. TEST CONDITIONS

Receipt of samples: 27/02/2025

Samples conditioning prior to tests:

Samples – possibly placed on their substrate – are conditioned in a $(23 \pm 2) ^\circ\text{C}$ and $(50 \pm 5) \%$ relative humidity atmosphere during seven days or until constant mass is achieved (like for materials highly thick, or still humid when delivered,). Mass is considered as constant when two successive weighings with a 24 h interval do not differ by more than 0,1 % or 0,1 g (whichever is greatest).

Test performed on: 01/04/2025

4. RESULTS

4.1. HEAT RADIATION TEST ACCORDING TO NF P 92-501 (DECEMBER 1995)

	Sample 1	Sample 2	Sample 3	Sample 4	
	–	–	–	–	
Mass (g)	414,50	413,20	415,10	414,90	
Perforation	Yes	Yes	Yes	Yes	
Exposed side lighting time : ti1 (s)	50	39	41	54	
Non exposed side lighting time : ti2 (s)	–	–	–	–	
Total flame height ΣH (cm)	116	144	177	140	
Total duration of flaming $\Sigma \Delta T$	112	137	166	132	Mean Value =
$Q = \frac{100 \times \Sigma H}{ti \sqrt{\Sigma \Delta T}}$	22	32	34	23	27,0
Not flaming molten drips	Yes	Yes	Yes	Yes	
No flaming molten drips	Yes	Yes	Yes	Yes	

4.2. DRIPPING TEST ACCORDING TO NF P 92-505 (DECEMBER 1995)

	Sample 1	Sample 2	Sample 3	Sample 4
Comment	–	–	–	–
Mass (g)	20,39	19,75	19,92	20,16
Number of specimens to reach 2 g	1	1	1	1
Fall of not flaming molten drips	Yes	Yes	Yes	Yes
Fall of flaming molten drips	No	No	No	No
Cotton ignition	No	No	No	No

report to be followed on next page

5. OBSERVATIONS ABOUT TESTS

At the end of the heat radiation tests, creep or falling droplets have been observed. Consequently, complementary dripping tests have been performed.

Trappes, April 03, 2025



**The Head of Fire Behaviour and Fire Safety
Department**

*Signature numérique de THIBAUT CORNILLON
Date: 03/04/2025 17:25:10*

The results, which are quoted, are only applicable to the sample, the product or material submitted to LNE and which is fully described in this document.

**Traduction du document (Document P248721 DEC/1) réalisée par le LNE.
La version en langue française fait foi.**