

TECHNICAL DELIVERY SPECIFICATION



V- 11T/093

This edition cancels the edition dated ---

Edition: 18/01/2021

PURClean365+

Standard range

1. Scope

This technical specification forms part of the contractual content and applies for PURClean365+ hoses made of RAU-PVC 8767 and RAU-PVC 7816.

2. Designation

PURClean365+ hose, made of RAU-PVC 8767 and RAU-PVC 7816

3. Material, material properties and foodstuff regulations

The used materials RAU-PVC 8767 and 7816 (polyvinyl chloride), which contains plasticisers, are materials with calcium-zinc stabilisers. The resistance of RAU-PVC to various agents can be found in our material data sheet AV0010.

		Inner layer	Sheating
		RAU-PVC 8707	RAU-PVC 7817
Shore hardness A	ISO 868, 3s	87 ±3	78 ±3
Tensile stress at break	ISO 527	≥ 18 N/mm ²	≥ 15 N/mm ²
Tensile strain at break	ISO 527	≥ 250 %	≥ 250 %
Temperature resistance	---	-10°C to +70°C	

RAU-PVC 8767 and RAU-PVC 7816 do not contain any SVHC in accordance with the ECHA candidate list or attachment XIV. of the REACH regulation (EC) no. 1907/2006.

RAU-PVC 8767 and RAU-PVC 7816 comply with the regulation (EU) no. 10/2011, end of life vehicles directive 2000/53/EG, the RoHS electric and electronic regulation 2011/65/EU as well as the WEEE waste electrical and electronic equipment directive 2012/19/EU.

The polymer material RAU-PVC 7816 used for the manufacture of the sheathing is grease resistant.

RPURClean365+ made of RAU-PVC 8767 and RAU-PVC 7816

Conformity declaration in accordance with regulation (EC) no. 1935/2004 and (EU) regulation no.10/2011

PURClean365+ conforms to the regulation (EC) no. 1935/2004 on materials and objects intended to come into contact with foodstuffs: for fat-free, solid, aqueous, acidic or alcoholic foodstuffs up to a maximum alcohol content of 20 volume % at a maximum application temperature of up to 40 °C (foodstuff category A,B and C; room temperature). PURClean365+ hoses are not suitable for contact with fatty foodstuffs (foodstuff category D1 + D2).

The polymer materials RAU-PVC 8767 and RAU-PVC 7816 used for the production of PURClean365+ hoses complies with regulation (EU) no. 10/2011 on materials and objects intended to come into contact with foodstuffs. Ingredients with SML and/or QMA values are present, for which compliance with the limit values for the above application conditions on the basis of appropriate laboratory tests has been confirmed.

Substances, which are also allowed as foodstuff additives (additives with dual application purpose), do not migrate and are included at such low quantities that they do not have any technological effect in the event of a migration.

The surface/volume ration corresponds to 3,2 cm²/ml for the smallest dimension of this technical delivery specification.

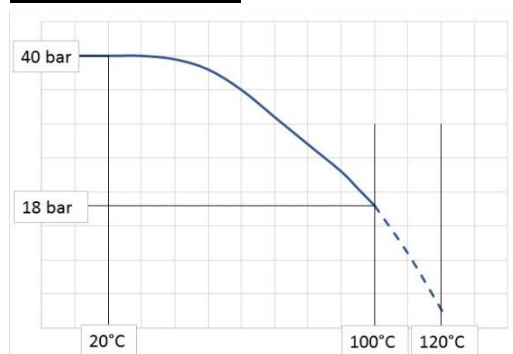
PURClean365+ hoses complies with the regulation (EC) no. 2023/2006 on good manufacturing processes for materials and objects that are intended to come into contact with foodstuffs; the production and administration locations have the appropriate ISO-9001 certifications and QS systems.

4. Technical data

The maximum operating pressure values were determined with a safety factor 3 from the static bursting pressure values. The bursting pressure test was carried out based on DIN EN ISO 1402 (see table 3 and figure 2). Figure 1 shows an article type-dependent representation of the operating pressure curve. R+M DeWit carried out and documented a long-term pressure test to verify the burst pressure values determined (see Table 3). The indicated pressure values are to be understood for the pure hose.

Mat. no.	Design.	ID in mm	AD in m	Coil make-up in m
10285461001	PURClean365+ 100	12,5 ±0,3	21,6 ±0,5	100 ±3
10285461002	PURClean365+ 40			

PURClean365+ 100



PURClean365+ 40

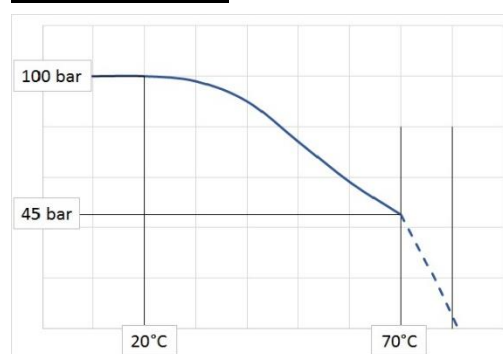


Figure 1: Course of the maximum permissible operating pressure values as a function of temperature per article variant

Table 2: Tests with original fittings by R+M DeWit company

Mat. no.	Design.	Long-term tests by R+M DeWit			
		Max. pressure	Temperature	Number of cycles	Date
10285461001	PURClean365+ 100	80 bar	40 °C	100.000	01.03.2016
		40 bar	70 °C	100.000	03.03.2016
10285461002	PURClean365+ 40	45 bar	70°C	150.000	24.03.2017
		18 bar	100 °C	100.000	31.03.2017

Table 3: Operating and burst pressure values for the non-integrated hose

Mat. no.	Design.	Max. permissible operating pressure in bar			Bursting pressure in bar		
		20°C	70°C	100°C	20°C	70°C	100°C
10285461001	PURClean365+ 100	100	45	18	300	110	50
10285461002	PURClean365+ 40						

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The choice of perfection

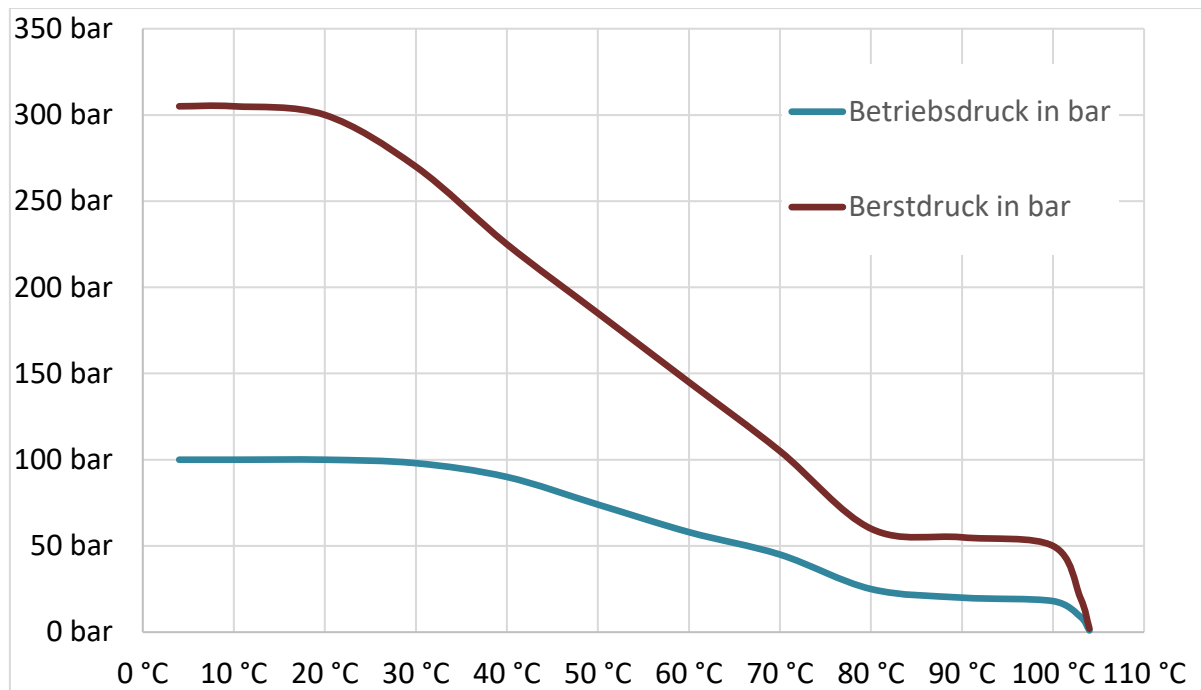


Figure 1: Course of the maximum permissible operating pressure values as a function of temperature per article variant

5. Colour

Inner layer	RAL 9010 pure white
Sheating	RAL 5017 traffic blue

6. Print

The hoses are recurrently printed black as follows (mat.no.10285461002):

PURClean365+® 40 EU Nr. 10/2011 sim A 45bar 70°C TTTJHHMM Made in Germany

The hoses are recurrently printed white as follows (mat.no.10285461001):

PURClean365+® 100 EU Nr. 10/2011 sim A 18bar 100°C TTTJHHMM Made in Germany

Key: TTTJ / A, B or C = Julian date/ year and shift code