

Cleaning recommendations prior to initial use

Steam the lining three times at 130°C (each time for a maximum of 20 minutes), cooling to room temperature between each steaming session. Alternatively, treat with an aqueous cleaning solution (40°C) consisting of 4 g caustic soda and 5.8 g table salt per litre of water for at least 24 hours. In both cases, the hose must be rinsed with drinking water afterwards.

Detergents and Disinfectants:		
Product	Maximum concentration %	Maximum temperature °C
R Water	–	90
R Steam	–	110
R Steam	–	temporarily 130
D Sodium hydroxide solution	2,0	85
D Potassium hydroxide solution	2,0	85
R AM 50	0,1	RT
D ATR acid BN	1,5	60
D Purexol liquid	1,0	70
D Alcamix L	1,5	60
R Octozon	0,1	RT
R Octozon G	0,1	RT
R Octozon acid ATR	0,5	80
D RS 6	1,0	60
D RA 2	1,5	60
D Adisan blue	1,0	70
R Perosin	0,3	RT
R VB 31 Booster	0,3	RT
D VA 19 Bruspray Acid	1,5	60
D VA 05 Pascal	1,0	60
D+R P ₃ – liquid OS	1,5	60
D+R P ₃ – ansep CIP	1,0	50
D P ₃ – mip CIP	1,0	80
D P ₃ – horolith BSR	1,0	40
D Niroklar sauer flüssig	1,0	60
D+R Niroklar 2000	1,0	70
R Neoseptal D	0,3	RT
R Neoseptal FD	0,5	RT
D+R Kombicid AT	1,0	70

Room temperature (RT) = +20°C to +25°C
 Temporarily = maximum of 20 minutes
 D = Disinfectants
 R = Detergents

Fitting recommendations

Properly installed with suitable fittings, LACTOPAL® and LACTOPAL® L hoses are completely safe and ultra-hygienic hose assemblies.

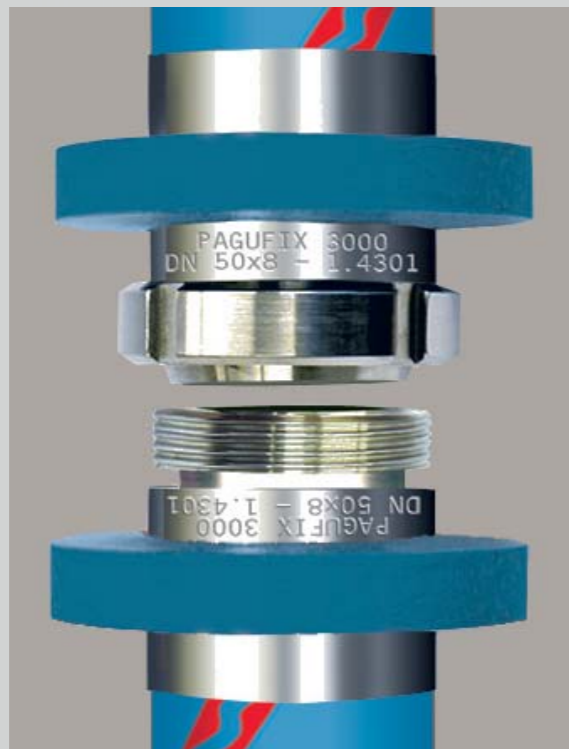
We can also supply the following fittings on request:

- DIN 11851 standard milk pipe thread
- DIN 11864-1 aseptic
- ISO 2853 IDF International
- BS 4825 RJT British standard
- SMS 1145 SMS Swedish standard
- DS 722 DS Danish standard
- Execution type clamp international, identical with DIN 32676, difference: diameter of sealing ring

The material 1.4301 is used as standard; other materials are available on request.

For possible types of hose attachments, please see BGI 572 safety instructions, page 27.

Protective rubber rings available in blue.



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ContiTech industrial hose program



Drinking water hoses Water hoses for industrial and commercial use Hoses for the food and beverage industry Hoses for milk collecting vehicles High-performance compressed air hoses Hoses for the brewing, beverage, and liquor industry

Together with the technical trade, we are developing further hose solutions for your specific application.

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Market segment industrial hoses

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LACTOPAL®,
 LACTOPAL® L
 and PERLAPAL®
 High quality hoses for the
 food, pharmaceutical,
 and cosmetic industry



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Your sales partner:



LACTOPAL® and LACTOPAL® L

High quality hoses for the food, pharmaceutical, and cosmetic industry

ContiTech Fluid Technology is a development partner and original equipment manufacturer with hoses and hose lines for the automobile industry and industrial applications. Our expertise in design and material engineering as well as our manufacturing process are the basis for the safe and smooth transportation of all media. Our high-quality hoses for industrial and commercial applications can be used in many ways. For decades, they have proven themselves in continuous use under the most grueling conditions. They are characterized by their reliability, safety, long service life, and easy, troublefree handling. We have the ideal hose for each medium – and for each hose the right fitting.



Labeling: red spiral with an integrated blue wavy line

Steel wire helix: only for LACTOPAL® L

Reinforcements: synthetic fibres

Inner lining: NBR, white

Cover: NBR, blue

- Properties:**
- White, non-porous, smooth NBR inner lining
 - Entirely tasteless and odourless
 - Resistant to oils and fats inside and outside
 - Temperature resistant up to +80 °C (+90 °C max. 20 minutes)
 - Steamable up to +110 °C (+130 °C max. 20 minutes)
 - Working pressure up to 16 bar
 - Reinforcements: synthetic fibres
 - NBR cover, resistant to ozone, weather, UV radiation, and abrasion
 - 2 year warranty for LACTOPAL® 1)

LACTOPAL® and LACTOPAL® L are multi-purpose hoses designed for the food, pharmaceutical, and cosmetic industry, and differ only in terms of their construction: LACTOPAL®: This hose's white lining is resistant to oils and fats, and is homogeneous, smooth, tasteless and odourless. It is also resistant to conventional detergents and disinfections. The hose has been specially designed to handle harsh everyday operating conditions. It is extremely robust and dimensionally stable, and can withstand a vehicle driving over it.

LACTOPAL® L: This hose's white lining is resistant to oils and fats, and is homogeneous, smooth, tasteless and odourless. It is also resistant to conventional detergents and disinfections. It's integrated steel wire helix makes LACTOPAL® L flexible, lightweight and highly resistant to suction.

Our hoses are tested for compliance with the recommendation XXI of the German Federal Institute for Risk Assessment (BfR) and the FDA, as well as by the Munich Technical University (Weihenstephan). Combined with our swaged fitting systems and blue protective rubber rings, the result is the ideal hose assembly.



1) The 2 year warranty for LACTOPAL® applies only to proven material and manufacturing defects, and only on the condition that the hose is mounted professionally with proper fittings, and used in compliance with our instructions and recommended service conditions.

Technical data LACTOPAL® :

Inner-Ø	Wall-thickness	Working pressure*	Minimum burst pressure*	Permissible excessive operating pressure at <0 bar	Minimum bending radius approx. mm	Weight approx. g/m	
1/2	13	4,0	16	≥ 48	-0,7	80	280
5/8	16	4,0	16	≥ 48	-0,7	100	320
3/4	19	5,0	16	≥ 48	-0,7	115	500
1	25	6,0	16	≥ 48	-0,5	150	800
1 1/4	32	8,0	16	≥ 48	-0,5	195	1.400
1 1/2	38	9,0	16	≥ 48	-0,5	230	1.700
1 9/16	40	9,0	16	≥ 48	-0,5	240	1.900
2	50	10,0	16	≥ 48	-0,5	300	2.700
2 3/8	60	10,0	16	≥ 48	-0,5	420	3.000
2 5/8	65	12,0	16	≥ 48	-0,5	455	3.800
3	75	12,0	16	≥ 48	-0,45	525	4.100
3 1/8	80	14,0	16	≥ 48	-0,45	560	5.100
4	100	15,0	16	≥ 48	-0,45	700	6.700

* based on room temperature Delivery in coils of 40m

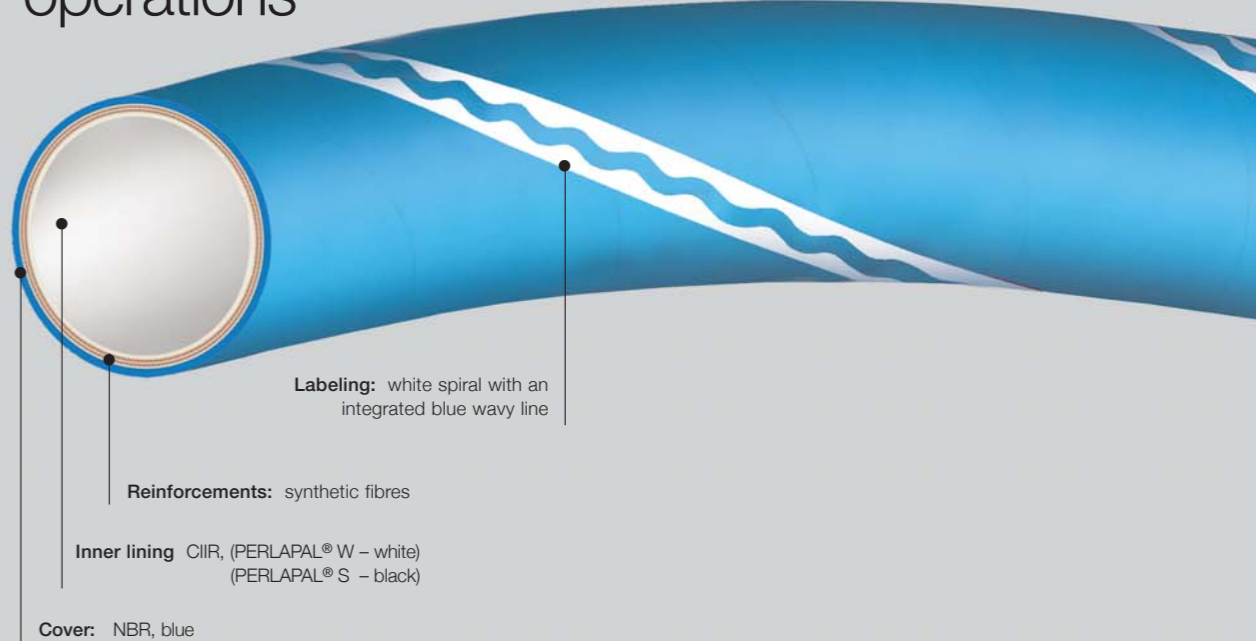
Technical data LACTOPAL® L :

Inner-Ø	Wall-thickness	Working pressure*	Minimum burst pressure*	Permissible excessive operating pressure at <0 bar	Minimum bending radius approx. mm	Weight approx. g/m	
3/4	19	5,0	16	≥ 48	-0,8	60	600
1	25	6,0	16	≥ 48	-0,8	80	880
1 1/4	32	6,0	16	≥ 48	-0,8	100	1.100
1 1/2	38	6,5	16	≥ 48	-0,8	115	1.430
1 9/16	40	7,0	16	≥ 48	-0,8	130	1.640
2	50	8,0	16	≥ 48	-0,8	150	2.170
2 1/8	53	7,0	16	≥ 48	-0,8	160	2.000
2 3/8	60	7,0	16	≥ 48	-0,8	170	2.350
2 1/2	63	7,0	16	≥ 48	-0,8	180	2.470
2 5/8	65	8,0	16	≥ 48	-0,8	190	2.870
3	75	8,0	16	≥ 48	-0,8	225	3.310
3 1/8	80	8,0	16	≥ 48	-0,8	300	3.510
4	100	9,0	16	≥ 48	-0,8	350	4.650

* based on room temperature Delivery in coils of 40m

PERLAPAL®

The hot water and steam hose for cleaning operations



Labeling: white spiral with an integrated blue wavy line

Reinforcements: synthetic fibres

Inner lining: CIIR, (PERLAPAL® W – white) (PERLAPAL® S – black)

Cover: NBR, blue

- Properties:**
- White (PERLAPAL® W) or black (PERLAPAL® S), homogeneous, smooth, CIIR inner lining
 - Lining: resistant to detergents and disinfections
 - Cover: resistant to oils and fats
 - Temperature resistant to hot water up to +95 °C
 - Temperature resistant to steam up to +164 °C (only suitable for use in OS, i.e. open systems)
 - Working pressure for saturated steam max. 6 bar (minimum burst pressure is 60 bar)
 - Working pressure for cold water max. 20 bar (minimum burst pressure is 60 bar)
 - Reinforcements: synthetic fibres
 - NBR cover, resistant to ozone, weather, and UV radiation and abrasion

Technical data PERLAPAL® W and S :

Inner-Ø	Wall-thickness	Working pressure* Saturated steam	Cold water	Minimum burst pressure*	Minimum bending radius approx. mm	Weight approx. g/m	
1/2	13	5,0	6	20	60	400	
3/4	19	6,0	6	20	60	600	
1	25	7,0	6	20	60	800	
1 1/4	32	7,0	6	20	60	1.200	
1 1/2	38	8,0	6	20	60	230	1.500
2	50	8,0	6	20	60	300	1.900

* based on room temperature Delivery in coils of 40m