

Technical data sheet

High pressure hose filled



1. Designation

High pressure hose DN 4 / DN 6 filled

2. Trade name

100-001 high pressure hose 840 bar / D 8,75 | D1 4,1 | filled with gerase NLGI class 2*
 100-011 high pressure hose 840 bar / D 11,3 | D1 6,35 | filled with gerase NLGI class 2*

*) please consider item 6

2. Material / material performance

inner tube: Polyamid 6, weich (thermopl. Polyamid 6)
 casing: high tensile polyester braid with polyurethane cover
 The pressure reinforcement is glued with the inner hose.

100-001	standard	inner tube	casing
tear strength	DIN EN ISO 527	> 30 N/mm ²	> 18 N/mm ²
elongation at break	DIN EN ISO 527	> 180%	> 380%
hardness, shore	DIN EN ISO 868	D 60 ± 3	A 88 ± 3

100-011	standard	inner tube	casing
tear strength	DIN EN ISO 527	> 30 N/mm ²	> 18 N/mm ²
elongation at break	DIN EN ISO 527	> 180%	> 380%
hardness, shore	DIN EN ISO 868	D 60 ± 3	A 89 ± 3

temperature using limit: - 40° bis + 80°C
 For mediums to be pumped with "grease with corrosion protection additives": max. 60° C
 nonhalogen under the standard DIN VDE 0472-815

3. Pressure reinforcement / pressure strength

bursting pressure (EN ISO 1402, pressurisation: 60 s)			operating pressure reference*		
20°C	(bar)	60°C	statistically	(bar)	dynamically
> 840		> 460	max. 280		max. 210

Technically correct diagonal reinforcement of polyester, high-strength bonded to the inner tube.

*) common coefficient of safety: stat. pressure load: 3, dyn. pressure load: 4

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4. Sizes / tolerances in mm / bending radius

sizes / tolerances	100-001	100-011
nominal size	4,0 x 8,6 d (inner x outer) mm	6,35 x 11,3 mm (inner x outer)
inner diameter	3,90 – 4,10 mm	6,2 – 6,5 mm
external diameter	8,50 – 8,75 mm	11,1 – 11,5 mm
allowed bending radius (20°)	> 20 mm	> 20 mm

5. Farbe

inner tube:	nature
casing:	black
reinforcement:	white
printing:	white

6. Grease AF-2 NLGI 2 400-001 - EP-multipurpose lithium-based grease

Grease 400-001 is natural colored lithium based EP Multipurpose grease with distinct high pressure additivation. Grease 400-001 is also additivated with components for an increasing oxidation stability and corrosion protection.

Grease 400-001 is for applications like roller bearings with high and temporary jerky compressive load and vibrations at normal and increasing temperatures. Based on the smooth texture is Grease 400-001 excellent pumpable in all kinds of central lubrication systems and ensured also the application in machines with increasing requirements.

Characteristics:

- provides protections against frictional corrosion and abrasion
- application temperatures from -30°C to +120°C, temporary up to 130°C
- does not contain solid lubricants
- oxidation resistant and stable while penetration
- water resistant and adherent
- good corrosion protection and high ability of pressure absorption

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Technical facts:

NLGI grade	2	DIN 51818
Viscosity at +40 °C	190 mm ² /s	DIN EN ISO 3104
Drop point	190 °C	DIN ISO 2176
Stability while penetration	280 till 310	DIN ISO 2137
<i>Water resistance</i>	<i>1 – 90</i>	<i>DIN 51807</i>
Corrosion protection	Grade 0/0	DIN 51802
Copper corrosion	1 – 100	DIN 51811
SKF-running test 120 °C	Passed	DIN 51806
Lubricating grease period of usage at 120 °C	F ₅₀ >150 h	DIN 51821
Soap base	Li-12-Hydroxystearat	DIN 51558

(The stated technical facts are average values.)

7. Design / packaging / labeling

Coil	100-001*	100-011*
external diameter	ca. 550 mm	ca. 550 mm
inner diameter	ca. 300 mm	ca. 320 mm

*) Short lengths are marked separately.

A share up to 5% of the total delivery quantity is allowed.

Packaging: loose in box or on pallet.

8. Modification

As the responsible supplier, FRITSCH reserves the right to carry out modifications or deviations of the products under contract, for purposes of improvement and further development.

9. General note

For many physiological applications, separate requirements often apply, which must be checked case-specifically by the customer.

The responsibility for the implementation, mounting and use of high-pressure hoses 100-001 / 100-011 is not the responsibility of Fritsche GmbH & Co.KG.

The warranty is limited to the specification of this technical data sheet.

Further warranties will not be accepted.

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