

# 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 <sup>2</sup>	> 18 N/mm <sup>2</sup>
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 <sup>2</sup>	> 18 N/mm <sup>2</sup>
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	> 45 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 <sup>2</sup> /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>	1 – 90	<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 <sub>50</sub> >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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