

# Technical data sheet

## High pressure hose unfilled



### 1. Designation

High pressure hose DN 4 / DN 6 unfilled

### 2. Trade name

100-002 high pressure hose 840 bar / D 8,75 | D1 4,1 | unfilled  
 100-012 high pressure hose 840 bar / D 11,3 | D1 6,35 | unfilled

### 2. Material / material performance

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

100-002	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

100-012	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. +70° 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	100-002	100-012
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. Design / packaging / labeling

Coil	100-002*	100-012*
external diameter	ca. 520 mm	ca. 480 mm
inner diameter	ca. 420 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.

### 7. 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.

### 8. 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 100-002 / 100-012 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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