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, weich (thermopl. Polyamid 6)
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/mm²	> 18 N/mm²
elongation at break	DIN EN ISO 527	> 180%	> 380%
hardness, shore	DIN EN ISO 868	D 60 ± 3	A 88 ± 3

100-012	standard	inner tube	casing
tear strength	DIN EN ISO 527	> 30 N/mm²	> 18 N/mm²
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	100-002	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. 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.

7. Modification

As the responsible supplier, FRITSCHE 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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