

# NANO TECHNOLOGY FOR SOLAR SYSTEMS

## NANOFLEX

Nano-flex hose assembly is developed to be used in extremely high and low temperature levels. High-tech Aspen Aerogels insulation material provides easy, quick and reliable connection for solar thermal systems.

UP TO 350 °C

UP TO 100 METERS

$\lambda_{(0\text{ }^{\circ}\text{C})}$  VALUE: 0,015 W / m K

Insulation Thickness: 5 mm

CHOOSE YOUR COLOR!



Silicone Cable

Push-fit Quick Connection Fittings

Stainless Steel AISI 316L

Polyolefin Cap

BEST QUALITY

Separable UV resistant cover

- + Flexible metal hose: AISI 316L
- + UV resist cover
- + Silicon cable
- + Insulation thickness: 5 mm
- + Diameter: DN12 - DN16 - DN20 - DN25
- + Temperature resistance of hose: -270 °C / +600 °C
- + Temperature resistance of insulation: -40 °C / +650 °C



 **AYVAZ**

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## ADVANTAGES

- Nano-flex is produced with one of the world's lightest insulation materials, developed by Aspen Aerogels.

Hi-tech insulation with low thermal conductivity (0.015 W/mK at 0 °C) is suitable for a wide temperature range, from -40 °C up to +650 °C.

- Low thickness of the insulation material (5 mm) reduces the external diameter of the hose and provides a relief on the transportation and the logistics area up to 66%.

- Easily separable compact design requires no additional pipe support during the installation. This shortens the installation time and makes it quicker and easier.

- The UV cover that is applied on the insulation, prevents the negative effects of the sun and protects the hose against birds and other hazardous species.

## PRODUCT FEATURES

### Hose

Parallel corrugated metal hose

### Hose Material

Stainless Steel AISI 316L

### Cover

Separable UV resistant cover

### Cable Material

Silicone Cable

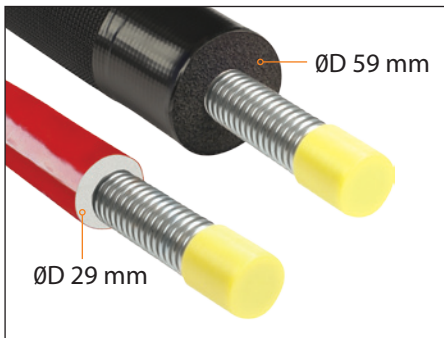
### Insulation Material

Aspen Aerogels insulation

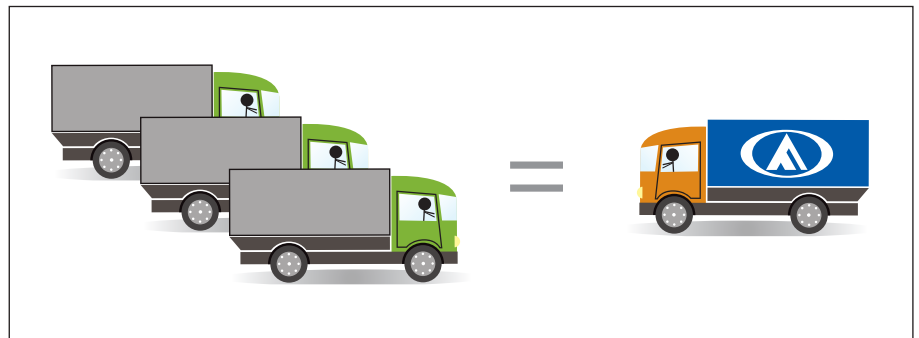
### Insulation Thickness

5 mm

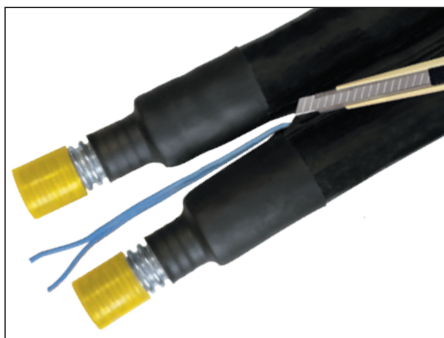
### MINIMUM THICKNESS MAXIMUM EFFICIENCY



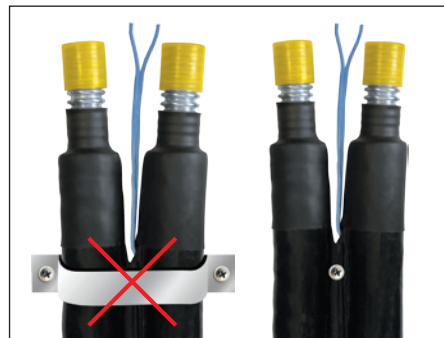
### PROVIDES A RELIEF ON THE TRANSPORTATION AND THE LOGISTICS AREA UP TO 66%



### EASY SEPARABILITY



### NO PIPE SUPPORT REQUIRED



### "PUSH-FIT" FITTINGS SYSTEM FOR FLEXIBLE HOSE WITHOUT GASKET

