

# Technical Data Sheet

## Platinum Cured Silicone Vacuum Hose



### Material

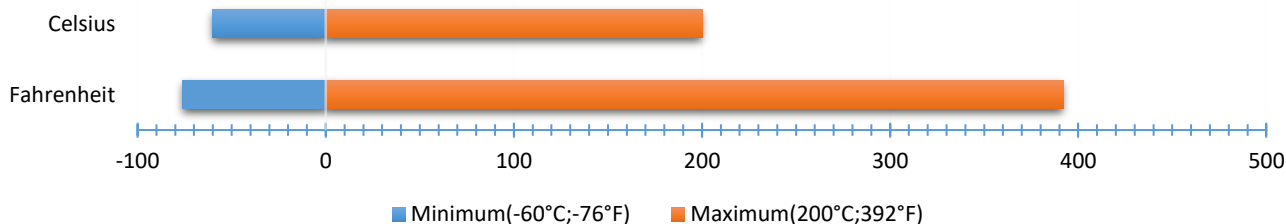
Platinum Cured Silicone  
Vacuum Hose



### Available Grades

NGP60

### Temperature Range



## General Information

The unique combination of elastomer and textile processing technology under one roof puts Silex in a position to offer its customers a broad range of polyester and wire reinforced vacuum hoses for many different vacuum applications. The wall construction is made of plies of knitted polyester cloth impregnated with silicone and a stainless steel wire reinforcing helix embedded between the plies. Smooth line bore for clear flow with smooth outer skin of silicone for complete integrity. The vacuum hose incorporates wire reinforcement at 4 turns per inch resulting in extreme flexibility and the ability to handle increased operating pressures.

Manufactured using a platinum cured silicone elastomer which is compositionally compliant with FDA 21 CFR 177.2600 and USP Class VI standards.

## Environmental Resistance

Silicone rubber products have an excellent resistance to:

- Ozone
- Oxidation
- Ultraviolet light
- Corona discharge
- Cosmic radiation
- Ionising radiation
- Weathering in general

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Silicone Platinum Cured Vacuum Hose



## Availability Format

These hoses are supplied in 4m lengths with a temperature range of -60°C to +200°C (+220°C spot) in standard form; bore sizes available from 6.3mm (1/2 inch) to 101.6mm (4 inch) is available ex-stock. The standard colour is translucent and is ideally suited for clean industry process/production use.

## Typical Applications

Silicone vacuum hoses are used in applications where extreme flexibility and ability to handle increased operating pressure is required in a wide range of industries.

## Physical Properties

Property	Typical Value
Raw material	Platinum Cured Silicone
Colour	Translucent
Specific Gravity	1.2
Hardness	60-65° shore 'A' (silicone)
Tensile Strength	10 Mpa (minimum) silicone
Elongation at Break	450° (minimum) silicone
Tear Strength	38 kN/m (silicone)
Rebound Resilience	(22hrs @ 177 deg C) % appx: 54.0
Polyester Fabric	180 deg C MAX
Stainless Steel Wire	1.2/1.6 Gauge : 316L

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## Minimum Recommended Bend Radii

Size (inch)	ID (mm)	OD (mm) ±0.6mm	Wall (mm)	Bend Radius	*WP 20 C Bar	**BP 20 C Bar
1/2"	12.7	22.5	4.9	75	10	30
3/4"	19.0	28.8	4.9	85	10	30
1"	25.4	35.2	4.9	100	10	30
1 1/4"	31.8	41.6	4.9	120	10	30
1 1/2"	38.1	47.6	4.9	145	10	30
2"	50.8	60.6	4.9	250	8	24
2 1/2"	63.5	73.3	6.2	300	5	15
3"	76.2	86.0	6.2	460	3	9
4"	101.6	111.4	6.2	950	3	9

\*\* These are guide figures and should be confirmed by the manufacturer of the assembly

\*\* Pressure decreases by 1% for every 1deg c above 100deg c

## Accreditations

**This is a material certification that confirms the above product types have been manufactured to & complies with or exceeds the following regulations:**

- \* FDA Regulations CFR 177.2600
- \* France Journal Officiel Brochure 1227
- \* German BGVV XVA & LIIA
- \* Italy Gazzetta Ufficiale - 1973 USDA standards
- \* ISO 10993 Sections 5, -6, -10, -11
- \* USP Class VI
- \* European Pharmacopoeia 3.1.9

**NOTE:** It is the responsibility of the user to determine that the finished product, including fittings, complies with the provisions of FDA 21 CFR 177.2600 and USP Class VI.

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