

SILICONE TUBING CATALOG

Silicone Tubing

Standard and platinum-cured
silicone tubing.



Silicone tubing for your application

Select inside diameter, wall thickness and material together.

The tubing's function

Silicone tubing can provide flexible fluid connections, link machine components or act as a roller sleeve. The right product depends on its function as well as its diameter.

Two product groups

Standard silicone tubing offers a choice of colors, hardness and cross-sections. Platinum-cured medical tubing forms a separate group, with a transparent appearance and its own size list.

In this catalog

This catalog covers product types, three applications, dimensioned cross-sections and minimum production quantities. The complete current size range is listed online.



Standard and platinum-cured silicone tubing

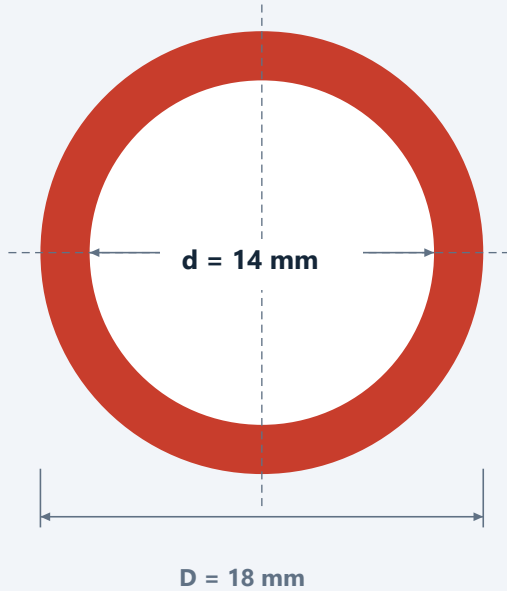
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Current sizes: online product page

How to read a tubing size

Inside diameter × outside diameter. These define the wall thickness.



SIZE EXAMPLE

14 × 18 mm

Inside diameter: 14 mm

Outside diameter: 18 mm

Wall thickness: 2 mm

$$t = (18 - 14) / 2$$

Inside diameter d is the bore of the tubing, the starting point for connection and flow-area selection.

Outside diameter D is the distance across the outer surfaces. It defines the space required and overall cross-section.

Wall thickness t is the silicone wall on one side: $t = (D - d) / 2$.

For fluid transfer

Assess connection diameter, required flow rate, pressure or vacuum, and bend layout together.

For roller sleeves

Specify roller diameter, fitted length, wall thickness and operating conditions. Fit is determined by the application.

Cross-sections are proportional technical illustrations; printed and on-screen views are not at actual physical size.

Standard silicone tubing

Different diameters and colors. Made for your application.



Illustrative product / application image

Product types

Red, white, black and clear samples show the product range. Specify color and hardness alongside inside diameter, outside diameter and wall thickness.

Typical applications

Filling and fluid transfer lines, machine connections and sleeves for shrink tunnel rollers. Function and operating conditions guide material selection.

Size options

The current list contains 965 sizes. Select an inside diameter online to view suitable outside diameters and wall thicknesses.

Production details

Minimum production is 100, 50 or 30 meters, based on outside diameter. The quantity for each size appears in the online table and cross-section preview.



Red



White



Black



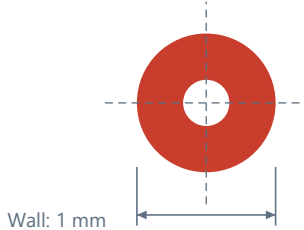
Clear

Color and transparency are appearance options. Select material and hardness to suit operating conditions.

Standard tubing cross-sections

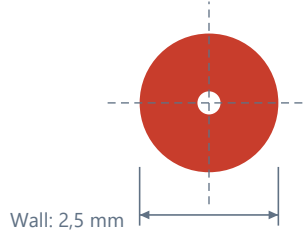
Read size examples together with wall thickness and production quantity.

1 × 3 mm



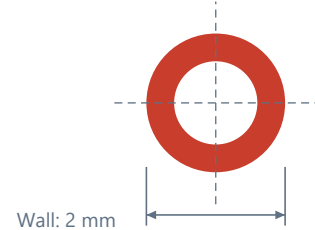
100 m

1 × 6 mm



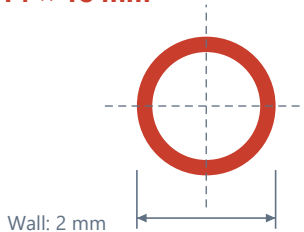
100 m

6 × 10 mm



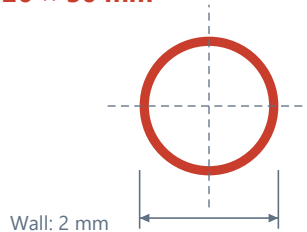
100 m

14 × 18 mm



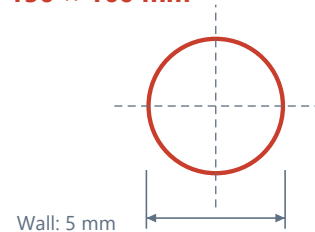
50 m

26 × 30 mm



50 m

150 × 160 mm



30 m

ID × OD (mm)	Wall (mm)	Min. production (m)
1 × 3	1	100
1 × 6	2,5	100
4 × 6	1	100
6 × 10	2	100
8 × 12	2	100
10 × 14	2	100
14 × 16	1	50
14 × 18	2	50
20 × 26	3	50
26 × 30	2	50
50 × 56	3	30
150 × 160	5	30

The sizes below are selected from the current standard tubing list. The 1 mm inside diameter group includes 1 × 3, 1 × 4, 1 × 5 and 1 × 6 mm options.

See all 965 sizes in the online tubing list. Each size opens its own proportional cross-section.

Platinum-cured medical tubing

Clear body. Platinum-cured silicone. Separate size and production list.



Illustrative product / application image

Material and appearance

This product group uses platinum-cured silicone. The clear body helps visually monitor flow. The open end shows the bore and silicone wall together.

Applications

For assessment in laboratory setups, process transfer and suitable pump connections. Specify the fluid, operating duration and cleaning method when requesting a quote.

Size options

The current medical tubing list contains 196 sizes, with inside diameters of 1-26 mm and a maximum outside diameter of 30 mm.

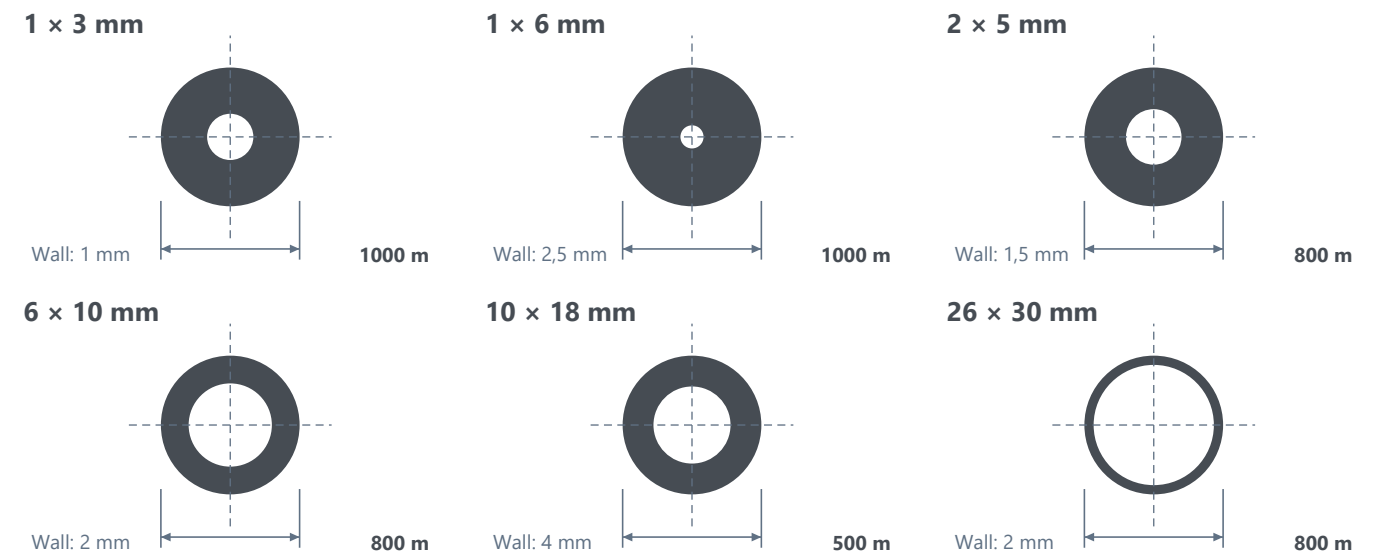
Production details

Minimum production is 500, 600, 800 or 1000 meters, based on inside diameter and wall thickness. All 1 mm inside diameter sizes require 1000 meters.

Required technical specifications and product documentation are confirmed for the selected material at quotation.

Medical tubing cross-sections

Maximum outside diameter 30 mm. Production based on bore and wall thickness.



ID x OD (mm)	Wall (mm)	Min. production (m)
1 x 3	1	1000
1 x 6	2,5	1000
2 x 4	1	1000
2 x 5	1,5	800
2 x 6	2	800
2 x 7	2,5	600
4 x 6	1	1000
6 x 10	2	800
8 x 14	3	600
10 x 18	4	500
20 x 30	5	500
26 x 30	2	800

Cross-sections are selected from the current medical tubing list. For half-millimeter wall thicknesses, use the next whole thickness's minimum quantity. All 1 mm bore sizes require 1000 meters.

See all 196 sizes in the online medical tubing list. Black cross-sections are technical illustrations; the product image shows clear tubing.

Filling and fluid transfer lines

Flexible connections from tank to filling point.



Illustrative product / application image

Where is tubing used?

It provides a flexible fluid connection between tanks, manifolds and filling equipment. Tubing can be routed between fixed pipe connections to suit the layout.

Application benefits

A flexible line adapts to the connection layout. Clear options help visually monitor flow. Inside diameter and wall thickness are selected alongside flow and mechanical conditions.

FILLING / TRANSFER - Assess connection size, fluid and cleaning procedures together.

Selecting tubing for filling lines

Assess the whole line, from connections to cleaning.

01

Connections and flow

Specify inlet and outlet diameters, required flow rate and line length. A narrow connection may restrict the selected tubing's flow area.

02

Line conditions

Specify operating temperature, line pressure or vacuum requirements. Assess wall thickness and material against these conditions.

03

Routing

Describe a layout that avoids sharp bends and crushing. Check tubing length, bending space and nearby equipment together.

04

Cleaning

Specify cleaning fluid, method, temperature and contact time. Product-contact material and required documentation depend on the application.

INFORMATION FOR A QUOTE

Transferred fluid and contact time

Connection type, bore and line length

Pressure / vacuum and temperature

Cleaning method and documents

Transparency helps monitor flow; application conditions determine material selection.

Laboratory and process connections

Flexible fluid transfer with clear platinum-cured tubing.



Illustrative product / application image

Where is tubing used?

For fluid transfer between laboratory vessels, process connections and suitable pump systems. Inside diameter and connection geometry depend on the setup's requirements.

Application benefits

The clear body helps monitor flow and connections. Flexible silicone tubing allows the connection route to follow the equipment layout.

PLATINUM-CURED SILICONE - Assess fluid, connections and cleaning conditions together.

Selecting platinum-cured tubing

Specify dimensions, operating conditions and documentation together.

01

Flow area and connection

Select the inside diameter for connection and flow needs. Outside diameter, wall thickness and fitting dimensions must be compatible.

02

Pump applications

A peristaltic pump repeatedly compresses the tubing. Specify pump model, tubing size, operating duration and fluid to assess a suitable material and cross-section.

03

Cleaning conditions

Specify the cleaning or sterilization method, temperature and cycle in your inquiry. Suitability of the selected material is assessed separately.

04

Documents and traceability

Share required tests, compliance documents and traceability requirements before quotation. These form part of product and material selection.

INFORMATION FOR A QUOTE

ID × OD and line length

Pump model and operating duration

Fluid, temperature and cleaning

Required tests and product documents

Platinum curing alone does not establish sterility or any specific compliance certification.

Shrink tunnel rollers

Silicone sleeves for roller surfaces. Sized to fit.



Illustrative product / application image

Where is tubing used?

Silicone tubing can serve as a sleeve on shrink tunnel rollers. It forms a silicone contact surface on the roller; it does not convey fluid in this application.

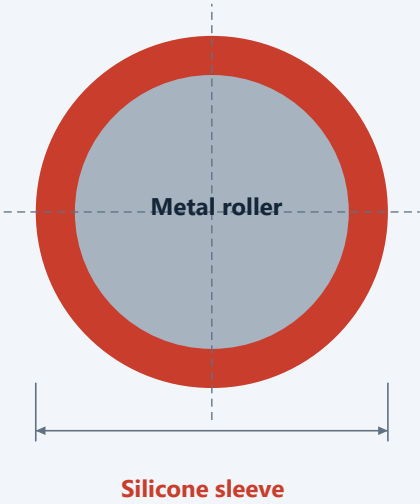
Application benefits

Tubing is selected by roller diameter and required wall thickness for sleeve use. Assess fitted length, surface temperature, rotation and the product in contact together.

ROLLER SLEEVES - Roller diameter, sleeve length and operating conditions are key quotation details.

Roller sleeve sizing and fitting

Define the roller and silicone sleeve geometry together.



INSIDE DIAMETER

Based on roller and fitting requirements.

OUTSIDE DIAMETER / WALL

Based on layout and operating conditions.

SLEEVE LENGTH

Required fitted length along the roller.

Roller diameter and fitted length

Share roller diameter, total sleeve length and the mounting surface. An existing sleeve sample or technical drawing helps with selection.

Wall thickness and layout

Assess wall thickness, outside diameter and clearance to nearby equipment together. Fit and tolerances depend on the application's requirements.

Operating conditions

Specify surface temperature, rotational speed, product contact and mechanical load. These guide hardness and material selection.

Replacement requirements

Send a cross-section photo, dimensions and operating conditions of the existing tubing. Let's assess the sleeve's fitting and operation together.

The diagram shows a silicone sleeve fitted over a roller. Final dimensions and fitting requirements depend on the application.

Select material properties together

Hardness, temperature and operating conditions matter alongside diameter.

01

Hardness and flexibility

Select Shore A hardness for bending, compression, fitting and contact needs. Pumps and roller sleeves create different mechanical conditions.

02

Temperature

Specify continuous and short-term operating temperatures separately. Include the temperature during cleaning cycles in material assessment.

03

Pressure and vacuum

Assess line pressure or vacuum, connections and tubing cross-section together. Wall thickness alone is not a performance rating.

04

Chemical contact

Specify the substance, concentration, temperature and contact time. Include cleaning fluids in the same assessment.

05

Color and transparency

Specify flow monitoring, product identification and appearance needs. Clear or colored appearance does not establish the material's technical grade.

06

Cleaning and documentation

Describe the cleaning or sterilization method and required documents. Requested properties are confirmed for the material offered.

Numerical operating limits are determined by the selected silicone material's technical data sheet.

Minimum production by size

Separate production rules for standard and medical tubing.

For standard tubing, minimum production depends on outside diameter. Medical tubing with a 1 mm bore has a special rule; other sizes are based on wall thickness.

STANDARD TUBING

Outside diameter	Minimum
15 mm and below	100 m
Over 15 mm - 30 mm	50 m
Over 30 mm	30 m

MEDICAL TUBING

Wall thickness*	Minimum
1 mm	1000 m
1,5-2 mm	800 m
2,5-3 mm	600 m
3,5-5 mm	500 m

SAME SIZE, DIFFERENT PRODUCT GROUP

ID × OD (mm)	Wall (mm)	Standard	Medical
1 × 6	2,5	100 m	1000 m
2 × 5	1,5	100 m	800 m
14 × 18	2	50 m	800 m
26 × 30	2	50 m	800 m

965

standard sizes

196

medical sizes

* Medical tubing with a 1 mm bore requires 1000 meters regardless of wall thickness. For half-millimeter wall thicknesses, use the next whole thickness's quantity.

MADE TO YOUR SIZE AND APPLICATION

Let's define your tubing requirements together.

Share your dimensions and application.

Inside × outside diameter / Total length / Application

Hardness and color / Temperature / Pressure or vacuum

Technical drawing, existing tubing sample or cross-section photo

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Büyükcçekmece / İstanbul

Images illustrate products and applications. Dimensions and minimum production quantities are taken from current Çınar Silikon product lists.