

What is Silicone Rubber?

Silicone rubber is a synthetic elastomer made from a cross-linked polymer that is reinforced with silica. As a result, silicone rubber has a number of chemical and mechanical properties that make it an extremely versatile material. Silicone rubber is:

- Odorless and tasteless
- Colorless (translucent)
- Water resistant
- Chemical and oxidation resistant
- Inert
- Ozone and UV resistant
- Non-conductive
- Extremely stable at elevated temperatures

Because silicone rubber is stable not only at elevated temperatures but at low temperatures as well, many designers specify silicone hose for use in extreme-temperature applications, ranging from -121°F to 600°F. In particular, silicone hose surpasses the temperature capabilities of rubber hose.

SILICONE HOSE BENEFITS

Beyond effectively handling temperature extremes, silicone hose offers a number of additional benefits for designers and users:

LONG SERVICE-LIFE—products last longer, have improved performance over the long haul, and have lower maintenance and warranty costs.

FLEXIBILITY—many silicone hoses are quite flexible, and some are the ultimate in flexibility while retaining their shape, for installation in tight envelopes or around obstructions.

SMOOTH FINISHES IN BRIGHT COLORS—easy installation and attractive looking. Color coding is possible as well.

CAN BE MADE INTO COMPLEX SHAPES—silicone materials can be shaped to fit specific requirements, eliminating costly assemblies and assembly labor. Also eliminates potential leak paths.

LOW PERMEATION—to reduce or eliminate emissions, odors.

THE ONLY HOSE TYPE THAT CAN BE TRULY STERILIZED—to ensure purity of products being manufactured or processed.



There is no better choice for today's trend in industry where there are applications surpassing the temperature capabilities of rubber hoses. **Silicone rubber hose is the ultimate choice** for those extreme-temperature applications.