# kg Sil

# **Silicone**

Silicone is a synthetic polymer compound, with a molecular chain consisting of alternating silicon and oxygen atoms. Depending on the production process, it can take the form of a liquid, gel, elastomer or resin. It is widely used for plumbing applications, due to its adhesive properties, ability to repel water, flexibility, stability in high/low temperatures and antimicrobial properties.

Silicone is derived from silicon, which is extracted from quartz, sand or other sources. To produce silicone, the base material (silicon) goes through several chemical and distillation processes.

In construction, silicone is used as a sealant, adhesive or electrical insulation amongst other uses. It is also widely used in manufacturing, for production of gaskets, moulds, coatings, caulks, household goods and plumbing hardware.

**Category** *Miscellaneous* 

Other polymers

Functional kg

Type

unit

Specific heat  $1460 \text{ J/(kg} \cdot \text{K)}$ 

**Density**  $960 \text{ kg/m}^3$ 

#### Common uses

Sealant, adhesive, electrical insulation, fittings, coatings

#### Process name

Silicone product, at plant/RER U/ AusSD U

# Input-output sector

Polymer Product Manufacturing

# **Further information**

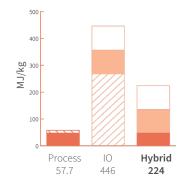
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# **TOP THREE INPUTS**









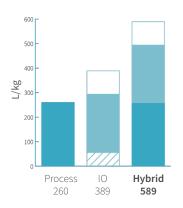


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