Shelf Life of KLINGER® gasket material

Shelf life of KLINGERSIL®, KLINGER®top-sil, KLINGER®top-graph, KLINGER® Quantum and KLINGER® CompenSil gasket materials

Compressed non asbestos gasket materials are like all elastomer-containing materials subject to a natural ageing process. This process depends on the kind of elastomer, its vulcanisation system and the storage conditions.

Basically a storage according to ISO 2230 (Rubber products – Guidelines for storage) is recommended.

Unfavourable storage conditions can lead to a premature reduction of the materials quality. Especially there is to mention elevated temperature, too low humidity as well as strong illumination.

Storage conditions according to ISO 2230:

» Storage according to the "First In – First Out" principle
» Temperature < 25 °C
» Relative humidity < 65 %
» Storage room without direct sunlight
» No contact with metals

According to the storage conditions defined in the ISO 2230 a storage of 7 years for KLINGERSIL®, KLINGER®top-sil, KLINGER®top-graph, KLINGER® Quantum and KLINGER® CompenSil is possible.
(Exceptions: KLINGERSIL® C-6307 and KLINGERSIL® C-6327 » 5 years resp. KLINGERSIL® C-8200 » 10 years)

Actually there is no possibility to define the changing of the storage time due to changes of the 3 influencing factors (temperature, humidity, illumination).

The main influencing factor is certainly the temperature in the storage area.

If the temperature in the storage area is 10 °C higher than ideal (= 25 °C) for a longer time the ISO 2230 defines a reduction in storage time of 50 %.

We therefore recommend a conditioning of the storage area according to ISO 2230.

Ready made gaskets should be stored horizontal as – particularly for bigger gasket sizes – tensions and distortions can occur and complicate the installation.

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