

Flat gaskets – recommendations for the selection of material and handling

Scope

This standard includes general recommendations for the selection of gasket material, a description of the most common types of gaskets, handling gaskets and recommendations for making flanged connections.

The temperature and pressure recommendations are set according to restrictive assessments where the limits favour continuous operating conditions. The gasket supplier must always be contacted when in doubt or for use outside the suggested temperature and pressure limits.

Recommendations for gasket materials for different fluids can be found in **SSG 7650E** – “Piping – recommendations for the selection, classification and inspection of materials and components”.

Changes since the previous edition

The following changes have been made since the last edition:

- Verification and update of all references to current versions.
- Editorial adjustments for better readability.
- Example images of flat gaskets have been added.

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1 General

A gasket should be cut out in a single piece, to minimise the risk of leakage. A split gasket should only be used when there is no other alternative.

2 Flat gasket materials

Gasket materials must always be selected with care, in order to ensure compatibility with the process media.

Table 1 below shows a summary of designations for various flat gasket materials. Each material is described in further detail in the following chapters.

Table 1 Designations for flat gasket materials

Flat gasket material	Designation
Strips of expanded graphite	EG
Expanded graphite with reinforcement	EG-A
Expanded graphite with reinforcement, oxygen approved	EG-AO
Monoaxially expanded PTFE	EX-TF-M
Biaxially expanded PTFE	EX-TF-B
Rubber bound fibre gasket	GF
Rubber bound fibre gasket with reinforcement	GF-A
Semi metallic gasket (camprofile)	KP
Metal jacketed gasket	MET
Spiral wound gasket	SP
Corrugated stainless steel sheet coated with PTFE or graphite	ST
Filled PTFE	TF-A
Restructured PTFE	TF-B