

HOT-GAS AND HOT-BLAST GASKETS

KLINGER Kempchen's hot-gas and hot-blast gaskets have proven themselves over many years of use in the iron and steel industry. Hot-gas and hot-blast gaskets are primarily used with dry gases and with high, dry heat. They are very suitable for the harsh conditions in hot-gas and hot-blast lines which also generally have low pressure. Depending on the leak-tightness required and the flange temperature, there are a number of models available.


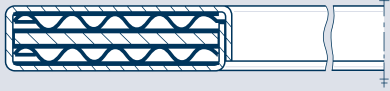

Most gaskets can withstand the demands made of a gasket when used in hot-gas or hot-blast lines. The gaskets can withstand high temperatures, are non-flammable and chemically resistant against dry, hot gases. They are used at high temperatures and at pressures of up to 10 bars. Gaskets with graphite inlays can be used at temperatures up to 550 °C.

The gaskets are available as circular or oval sealing rings or as frames. In their standard form they consist of a 3 mm thick core of unalloyed steel and a coating of fibreglass impregnated with graphite.

We can produce frame gaskets with welded plates or in some cases with holes directly from client drawings. If requested, we can also supply these gaskets with a different steel core, for example 1.4541 or 1.5414.

The **WAG Profile** consists of a steel ring with two U-shaped fibreglass envelope. The first (inner) envelope has an opening facing outwards, the second (outer) envelope has an opening facing inwards. This design helps to prevent the casing being ripped off when fitted in difficult conditions, by packing the gasket into a narrow sealing gap. The gaskets are generally impregnated.

Gasket profiles

Profile	Cross-section
WAG	
W2AM	
B7M-F1-CKP	

In **Profile W2AM** gaskets, the inner steel ring is layered with corrugated gaskets with graphite layers and then coated with fibreglass. The gaskets are generally impregnated.

Profile B7M-F1-CKP gaskets consist of a grooved gasket coated with fibreglass and an inner eyelet and are impregnated with CKP. This design produces comparatively thin gaskets. These gaskets fulfil the need for a fast compression set, particularly when fitting flanges with hydraulic or pneumatic screwing tools or even by hydraulic tension (bolt tensioning). The gasket is certified in accordance with TA-Luft and can be used with other smelting gases.

Corrugated and metal jacketed gaskets can also be used for hot-gas applications.

Gasket limiting values

Profile		WAG	W2AM	B7M-F1-CKP
Materials		Steel fibreglass	fibreglass fibreglass	Steel fibreglass
Recomm. max. roughness of the flange surfaces	μm from to	50 100	50 100	50 100
Surface pressure limits for 20 °C	N/mm^2 σ_v σ_θ	45 120	45 150	30 350
Surface pressure limits for 300 °C	N/mm^2 σ_v σ_θ	60 100	60 125	25 210