



Elastomer compounds for the gas industry

Certified according to DIN standards EN 549 and EN 682

Gummiwerk KRAIBURG offers elastomer compounds for the gas industry which are certified according to the DIN standards EN 549 and EN 682. The certifications confirm that the compound generations meet the requirements for use in gas supply as well as in gas devices and systems.

Primarily, two EN standards from the DVGW (German association for gas and water) are applied to elastomers in the gas industry:

DIN EN 549

This standard prescribes tests of standardized samples which are made from sheets of the material. To confirm that the finished part is functionally suitable, finished parts can also be inspected once integrated in gas devices and systems.

Temperature – classes:											
Class		A1	B1	C1	D1	E1	A2	B2	C2	D2	E2
Operating temperature [°C]	from	0	0	0	0	0	-20	-20	-20	-20	-20
	to	60	80	100	125	150	60	80	100	125	150
Hardness range – classes											
Class		H1			H2			H3			
Nominal hardness range [IRHD]		< 45			45 to 60			> 60 to 90			

Fig. 1: Classification of a material according to EN 549

With certified NBR-based compounds, Gummiwerk KRAIBURG serves the common temperature classes B1 and B2 and the important hardness ranges H2 and H3.

DIN EN 682

This standard specifies the requirements of the materials used in seals for supply lines and components in operating temperatures ranging from -5° C (in special cases -15° C) to +50° C.

Type	Application	Operating temperature °C
GA	Gaseous fuels	- 5 to 50
GAL	Gaseous fuels	- 15 to 50
GB	Liquid hydrocarbons and gaseous fuels	- 5 to 50
GBL	Liquid hydrocarbons and gaseous fuels	- 15 to 50
H	Aromatic liquid hydrocarbons and gaseous fuels with gas condensates	- 5 to 50

Fig. 2: Designation of elastomer seals according to EN 682 depending on their type, application and operating temperature

Gummiwerk KRAIBURG's NBR-based compounds, certified according to EN 682, are well assorted in the hardness range between 60 and 93 shore and available for the commonly required type GA – for the 70 shore version, type GBL is also available.

DIN EN 682 - this standard should be used in combination with the product standards which specify the performance requirements for seals.

The operating temperature ranges do not determine the temperature of use of the respective materials. They merely define the certified and thus approved working temperatures for the respective use.

About us

Gummiwerk KRAIBURG GmbH & Co. KG is a company of KRAIBURG Holding GmbH & Co. KG and currently employs about 400 people. In 2018, the company generated turnover of € 100 million.

Gummiwerk KRAIBURG, a leading manufacturer of rubber and silicone compounds, has been developing and producing highly customized solutions for the demands of customers and markets for more than 70 years. KRAIBURG rubber and silicone compounds are used in the automotive sector, in machine construction, oil and gas production, the roller industry and by numerous other manufacturers of moulded rubber components.

RUBBER COMPOUNDS. SILICONE COMPOUNDS.