



# Novus S expanded graphite sheet

## without metal insert

**Material composition:** Expanded graphite sheets are produced from pure, expanded flexible graphite and do not contain any other fibers or filler materials.

**Properties:** Expanded flexible graphite sheets are universally applicable for gases and fluids. They are chemically resistant against most media, have excellent thermal conductivity, can be stored indefinitely, do not need anti-stick coating and are extremely resistant to temperature cycles.

**Application areas:** Because of its specific structure expanded graphite sheets are particularly suited for applications with extremely high or low temperatures, with highly corrosive and aggressive media, for sensitive flange materials (i.e. enamel, glass, plastic) and for gas and steam applications.

Temperature range:	- 240° C up to 450 ° C, with steam up to 650 °C, under inert conditions up to 3.000°C
pH range:	0 – 14
carbon content:	> 98 %
chloride content:	< 30 ppm
sulphur content:	< 1000 ppm
density (graphite):	1g/cm <sup>3</sup>
compressibility:	> 40 %
recovery:	> 10 %
residual stress:	> 45 N/mm <sup>2</sup>
sheet size (in mm):	1.000 x 1.000
thickness (in mm):	1,0 / 1,5 / 2,0 and 3,0

**Expanded graphite sheets are also available with tanged or plain metal inserts in 304 and 316 stainless steel.**

Because graphite sheets are fragile and therefore difficult to handle, we recommend the use of styles with metal insertions.