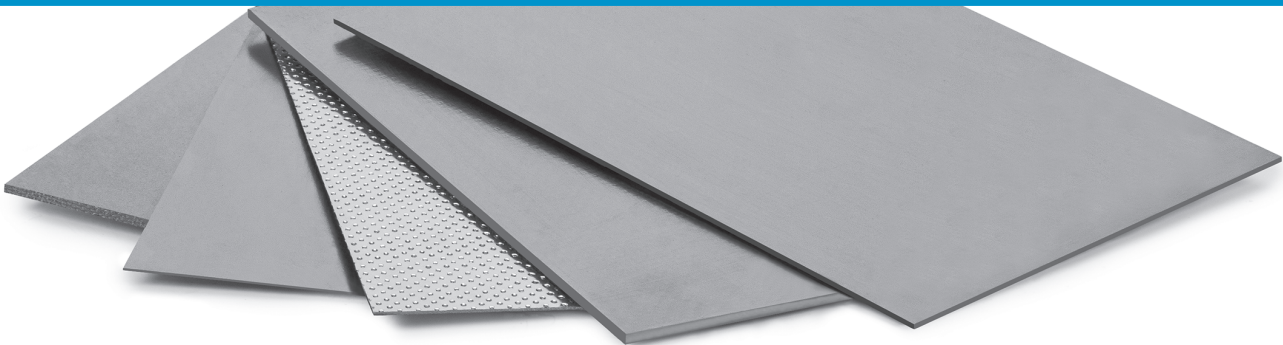
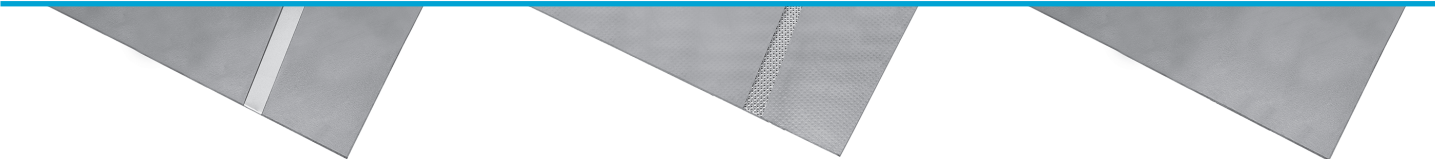


GRAPHITE SHEETS TENSOGGRAPH®



⬡ **Tensograph®** sheets are manufactured using whole range of UNICHIMTEK`s graphite foils followed by further processing with reinforcing insert. Sheets provide great chemical resistance, high elasticity and thermal stability. Depending on the application either tanged, plain or no insert could be recommended.



Tensograph® M1



Plain steel insert

Tensograph® P1



Tanged steel insert

Tensograph® N



Non-reinforced

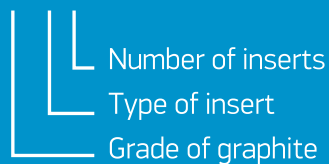
Parameter	Tensograph® M1	Tensograph® P1	Tensograph® N
Thickness, mm	0.76, 1.0, 1.5, 2.0, 3.0, 4.0		0.5, 0.76, 1.0, 1.5, 2.0
Material for inserts	AISI 316L (0,05/ 0.1 mm)	AISI 316L (0,1 mm)	-
Dimensions, mm	1000x1000 / 1500x1500		
Available grades of graphite	Tensograph® B; G; D; C		

OPERATING RANGE

- Temperature range from -195 °C up to 450°C (in water steam - 650 °C).

SELECTION GUIDE

Tensograph® G-P1



APPLICATIONS

- Power generation, petro-chemical, oil and gas industries;
- High-temperature and chemical equipment.

MAIN FEATURES AND PROPERTIES

- Great chemical and thermal resistance;
- High recovery and compressibility;
- Low sulfur content;
- Suitable for oxidising and corrosive medias (Tensograph®C);
- Blow-out safety;
- Low leakage (conformity to DIN 3535-6);
- Anti-sticking properties in accordance with ASTM F607.
- Fire-safety approved (API Specification 6FB).

AVAILABLE OPTIONS OF GRAPHITE FOIL TENSOGRAPH®

Parameter	Grade B Industrial	Grade G High-purity	Grade D Nuclear	Grade C Anti-oxidation and anti-corrosion
Carbon, %	> 98,0	> 99,0	> 99,85	> 98,0 (99,5*)
Ash, %	< 2,0	< 1,0	< 0,15	< 2,0
Sulfur, ppm	< 200	< 100	< 50	< 100
Chlorine**, ppm	< 40	< 40	< 20	< 40
Fluorine**, ppm	< 20	< 10	< 10	< 10
Total halogens (Cl+F+Br)** , ppm	< 200	< 50	< 50	< 310
Tensile strength, Mpa	> 4,5	> 4,5	> 4,5	> 5,0
Compressibility, %	> 40	> 40	> 40	> 40
Recoverability, %	> 10	> 10	> 8	> 10
Oxidation and corrosion inhibitor	-	-	-	yes
Weight loss (670 °C), %/h	< 12	< 12	-	< 4
Compliance to special requirements	DVGW DIN 3535-6	BAM; ASTM F2168 class 2 (B)	PMUC norms; GS RC PVE 011; BAM; ASTM F2168 class 2 (B)	MESC 85/203; EN 14772 §6.7; ASTM F2168 class 2 (A); DIN-28091-4

subject to variation due to thickness and density

* according to ASTM F2168 §13.4

** leachable

- Special forms and grades available on request;
- Material is free of any particles of asbestos;
- All data is provided in informational purposes and is not subject of obligations.



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