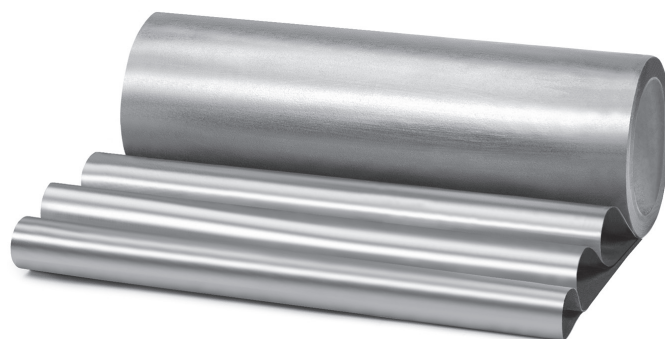
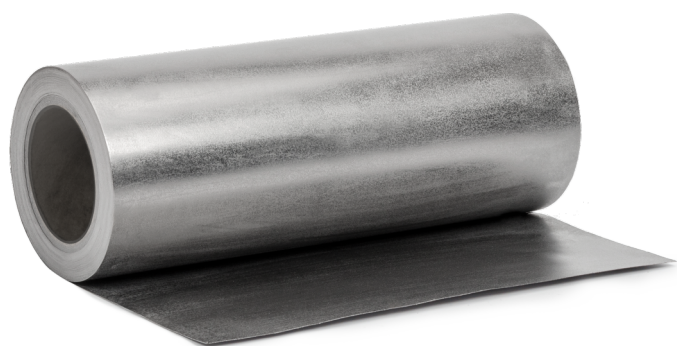


Tensograph

ART OF SEALING

GRAPHITE FOIL TENSOGGRAPH®



Product portfolio of **Tensograph®** graphite foils is aimed to cover all range of requirements starting from basic industrial needs and up to demanding nuclear or high-temperature applications.

Industrial grades offer highly reliable and feasible solution whereas high spec grades are suitable for oxidising, corrosive and high-temperature conditions as well as nuclear norms.

APPLICATIONS

- Production of graphite seals such as SWG, kammprofile and corrugated gaskets, braided packings and rings for stuffing boxes;
- Power generation, chemical, oil and gas industries;
- Oxidising and corrosive medias (Tensograph® C);
- Nuclear industry (Tensograph® D).

OPERATING RANGE

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

MAIN FEATURES AND PROPERTIES

- Compliance to MESG 85/203 and EN 14772 §6.7 (Tensograph® C);
- High purity: > 99,0 % or > 99,85 % of carbon content;
- No corrosion;
- Low sulfur content;
- No aging effect – suitable for long-term applications;
- High tensile strength grade (5,0 MPa) for high-volume production.

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	> 10	> 8
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

FORMS OF SUPPLY TENSOGRAPH® GRAPHITE FOIL

Name	Value
Form	Rolls, tapes
Width of rolls, mm	1000 / 1500 (foil); ≥4.0 (tapes)
Thickness, mm	0.38, 0.5, 0.76, 1.0
Length of winding, m	30, 50, 60, 90, 100
Available density, g/cc	1.0, 0.7, 1.12 (deviation 5%)



- 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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