



GRAPHITE FOIL TENSOGGRAPH®

US units



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 -319 °F up to 842 °F (in water steam - 1202 °F).

MAIN FEATURES AND PROPERTIES

- Compliance to MESC 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 (725 psi) 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, psi	> 700	> 700	> 700	> 725
Compressibility, %	> 40	> 40	> 40	> 40
Recoverability, %	> 10	> 10	> 10	> 10
Oxidation and corrosion inhibitor	-	-	-	yes
Weight loss (1238 °F), %/h	< 12	< 12	-	< 4
Compliance to special requirements	-	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

* according to ASTM F2168 §13.4

** leachable

FORMS OF SUPPLY TENSOGRAPH® GRAPHITE FOIL

Name	Value
Form	Rolls, tapes, corrugated sticky tapes
Width of rolls, in	20" / 40" / 60"
Thickness, in	0,015" / 0,02" / 0,03" / 0,04"
Length of winding, ft	100' / 165' / 200' / 300'
Available density, lb/ft ³	44 / 70 (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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