



MAIN FEATURES AND PROPERTIES

- Great chemical and thermal resistance;
- High recovery and compressibility;
- Low sulphur content;
- Suitable for oxidizing medias (Hexaflex™ Σ Sigma, θ Theta, θ Theta);
- Blow-out safety;
- Low leakage (conformity to DIN 3535-6);
- Anti-sticking properties in accordance with ASTM F607
- Fire safety (API Specification 6FB).

HEXAFLEX™ GRAPHITE SHEETS ARE MANUFACTURED USING ANY GRADE OF HEXAFLEX™ GRAPHITE FOILS AND GUARANTEE NO-COMPROMISE HIGHEST PERFORMANCE AND RELIABILITY. SHEETS CAN BE SUPPLIED WITHOUT REINFORCEMENT OR REINFORCED BY TANGED OR PLAIN STAINLESS STEEL OR OTHER ALLOY AS PER DEMAND OF THE CUSTOMER.

Hexaflex™ P1 – Tanged steel reinforced

Hexaflex™ M1 – Plain steel reinforced

Hexaflex™ N – Homogeneous



Parameter

Thickness, mm

Material for inserts

Dimensions, mm

Hexaflex™ P1

0.76, 1.0, 1.5, 2.0, 3.0, 4.0

AISI 316L (0.1 mm)

1000x1000 / 1500x1500

Hexaflex™ M1

0.76, 1.0, 1.5, 2.0, 3.0, 4.0

AISI 316L (0.05/0.1 mm)

1000x1000 / 1500x1500

Hexaflex™ N

0.5, 0.76, 1.0, 1.5, 2.0

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1000x1000 / 1500x1500



APPLICATIONS

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

OPERATING RANGE

Temperature range
from -195°C / -319°F up
to 450°C / 842°F
(in water steam - 650°C /
1202°F).

SELECTION GUIDE

Hexaflex™ Γ-P1, where:

- Γ - Grade of graphite,
- P - type of insert,
- 1 - Number of inserts

AVAILABLE OPTIONS OF GRAPHITE FOIL HEXAFLEX™

PARAMETER	GRADE A ALPHA COMMODITY	GRADE B BETA INDUSTRIAL	GRADE Γ GAMMA HIGH-PURITY	GRADE Δ DELTA ULTRA-HIGH PURITY	GRADE Σ SIGMA ANTI- OXIDATION AND ANTI- CORROSION	GRADE Θ THETA HIGH-PURITY AND ANTI- OXIDATION	GRADE 1Θ 1THETA ULTRA-LOW LOSSES
Thickness & Density Variation, %	±10	±10	±5	±5	±5	±5	±5
Carbon, %	98,0	> 98,0	> 99,0	> 99,85	> 98,0 (99,0*)	> 99,0	> 98,0
Ash, %	2,0	< 2,0	< 1,0	< 0,15	< 2,0	< 1,0	< 2,0
Sulphur, Ppm	< 200	< 200	< 100	< 50	< 100	< 100	< 100
Chlorine**, Ppm	< 40	< 40	< 40	< 20	< 40	< 20	< 20
Fluorine**, Ppm	< 20	< 20	< 10	< 10	< 10	< 10	< 10
Total Halogens (Cl+F+Br) **, Ppm	< 200	< 200	< 100	< 50	< 200	< 100	< 100
Tensile Strength, MPa	> 4,0	> 4,5	> 4,5	> 4,0	> 5,0	> 5,0	> 5,0
Compressibility, %	> 35	> 40	> 40	> 40	> 40	> 40	> 40
Recoverability, %	> 5	> 10	> 10	> 9	> 10	> 10	> 10
Oxidation And Corrosion Inhibitor	-	-	-	-	Yes	Yes	Yes
Weight Loss (670 °C), %/H	-	< 12	< 12	-	< 4	< 3	< 1
Compliance To Special Requirements	-	DIN 3535-6	BAM; ASTM F2168 Class 2 (B), DIN 3535-6	PMUC Norms; GS RC PVE 011; BAM; ASTM F2168 Class 2 (B), DIN 3535-6	MESC 85/203; EN 14772 §6.7; ASTM F2168 Class 2 (A); DIN-28091-4, DIN 3535-6	MESC 85/203; EN 14772 §6.7; ASTM F2168 Class 2 (A); DIN-28091-4, DIN 3535-6	MESC 85/203; EN 14772 §6.7; ASTM F2168 Class 2 (A); DIN-28091-4, DIN 3535-6

subject to variation due to thickness and density

* initial carbon content (before inhibitors added)

**leachable

CONTACT US

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OUR LOCATION

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