

SIGRAFLEX® APX

Flexible Graphite Foil



SIGRAFLEX APX is a flexible graphite foil with outstanding oxidation resistance for automotive and industrial gaskets and packings. It was first developed to meet the rigorous demands of modern automotive exhaust systems. However, the foil's key advantages are also invaluable for industrial sealing applications, where durability, reliability and safety are important.

A new production process allows the oxidation inhibitor to be incorporated directly into the structure of the graphite foil. This optimizes its oxidation behavior.

Applications

SIGRAFLEX APX is recommended for use at elevated temperatures where maximum oxidation resistance and sealability are needed.

Automotive gaskets

- ▶ Exhaust gasket rings
- ▶ Exhaust manifold gaskets
- ▶ Exhaust pipe gaskets
- ▶ Exhaust gas recirculation (EGR) gaskets



Industrial packings and gaskets

- ▶ Stuffing box packings
- ▶ Spiral-wound gaskets
- ▶ Kammprofile gaskets
- ▶ Graphite gaskets



Broad Base. Best Solutions.

Properties

The thermal stability of SIGRAFLEX APX is superior to that of standard grades of graphite foil. This is reflected by its mass loss curve, whose temperatures for any given mass loss are about 150°C higher. The graph opposite shows weight loss in air as a function of temperature.

Typical order

APX foil, Thickness 0.5 mm, Density 1.0 g/cm³, Width 500 mm, Length 50 m:

50 m x 500 mm F05010APX

Packaging

Foil width: 500 mm

Winding core diameter: 105 mm

Carton dimensions (mm):

B x H x L: 240 x 240 x 620

B x H x L: 300 x 300 x 620

Foil width: 1000 mm

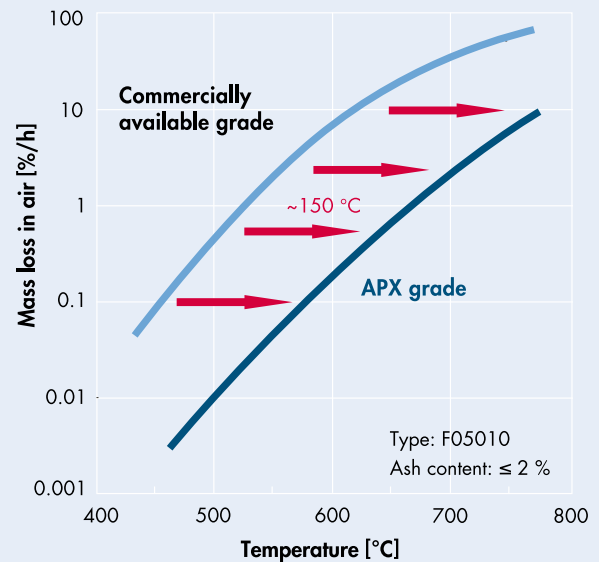
Winding core diameter: 105 mm

Carton dimensions (mm):

B x H x L: 240 x 240 x 1060

B x H x L: 300 x 300 x 1060

APX Quality



Material data

Material type	SIGRAFLEX APX
Density	0.7 - 1.3 g/cm ³
Ash content	≤ 2.0 %
Purity	≥ 98.0 %
Chloride content	≤ 25 ppm
Thickness*	0.35 – 3.0 mm
Width	4.0 – 1500 mm
Length	up to 1200 m for foil in roll form (≤ 1.0 mm thickness)

*sheets from 1.0 mm; dimensions on request

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