

## **EXPANDED PTFE SHEETS AVKOSEAL® eC**

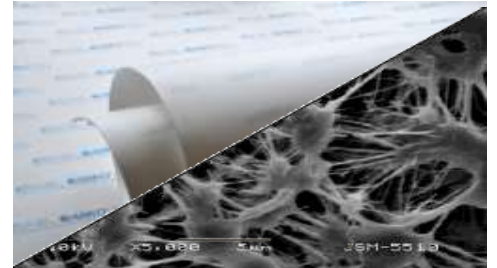
### **NEW!**

**The material in some of the thicknesses can also be delivered with self-adhesive ply!**

**AVKO® offers ready cut flat gaskets from that material, based on Client inquiry with measures and quantities!**

### **CHARACTERISTICS**

Gasket sheets AVKOSEAL® eC are made from 100% pure multidirectional expanded PTFE, through unique AVKO® technology for forming of special febrile structure with extreme mechanical strength and sealing parameters.



### **APPLICATION**

Material is used for flange sealing in wide range of media like oils, petrol water, acids, etc. at temperature up to 260°C /peak temperature 315°C/. It is chemically inert against the most aggressive acids, except molten alkali metals and elemental fluorine. Sheets are used for cutting of gaskets and seals for fragile surfaces as glass, ceramic or glazed flanges. During the bolt tightening process of such flanges it is possible that they are damaged or broken in case the gasket is not soft enough. Therefore gasket sheets AVKOSEAL® eC are preferred material for usage when there is risk of breaking the surface of the sealed parts. AVKOSEAL® eC is performing as an excellent decision for sealing of irregular surfaces, filling even smallest unevenness.



### **ADVANTAGES**

Sheets AVKOSEAL® eC are innovative material with perfect seal properties, which fully eliminates the effect of “cold flow”. This guarantees long and reliable life of gaskets. Sheets are flexible, they can easily take the shape of sealed surface, which gives them big advantage for damaged flanges. Suitable for food and pharmaceutical industry, widely used in petrol, gas and chemical industries.

### **CERTIFICATES AND APPROVALS:**

- ✓ **USP class VI**
- ✓ **Citotoxicity**
- ✓ **BAM**
- ✓ **FDA**
- ✓ **TA Luft VDI 2440**
- ✓ **DIN 28090-1**
- ✓ **HOBT 1, HOBT 2**
- ✓ **ASTM F36**
- ✓ **Regulation EC 10/2011**

### **TECHNICAL PARAMETERS**

Dimension:	1500x1500mm (±20mm); 1000x1000mm AVKO® offers smaller and bigger sizes at request.
Thickness:	0.5; 1.0; 1.5; 2.0; 2.5; 3.0; 4.0; 5.0; 6.0; 9.0; 10.0mm
Working temperature:	-240°C ÷ 260°C (peak temperature +315°C)
Compressibility:	56 ÷ 66% ASTM F36
Recovery:	18 ÷ 22% ASTM F36
Leakage rate:	<b>9.2 x 10<sup>-7</sup></b> mbar.l/(s.m) TA Luft VDI 2440
Chemical resistance:	0 ÷ 14 pH
Hardness:	65-75 Shore A

**QUALITY CONTROL**

The whole production process is supervised in accordance with the Quality System ISO 9001, ISO 14001, ISO 45001.

**HUMAN HAZARDOUS:** Not registered

**AVKO® JSC can offer several variants of sheets varying in technical, commerce and other parameters!**

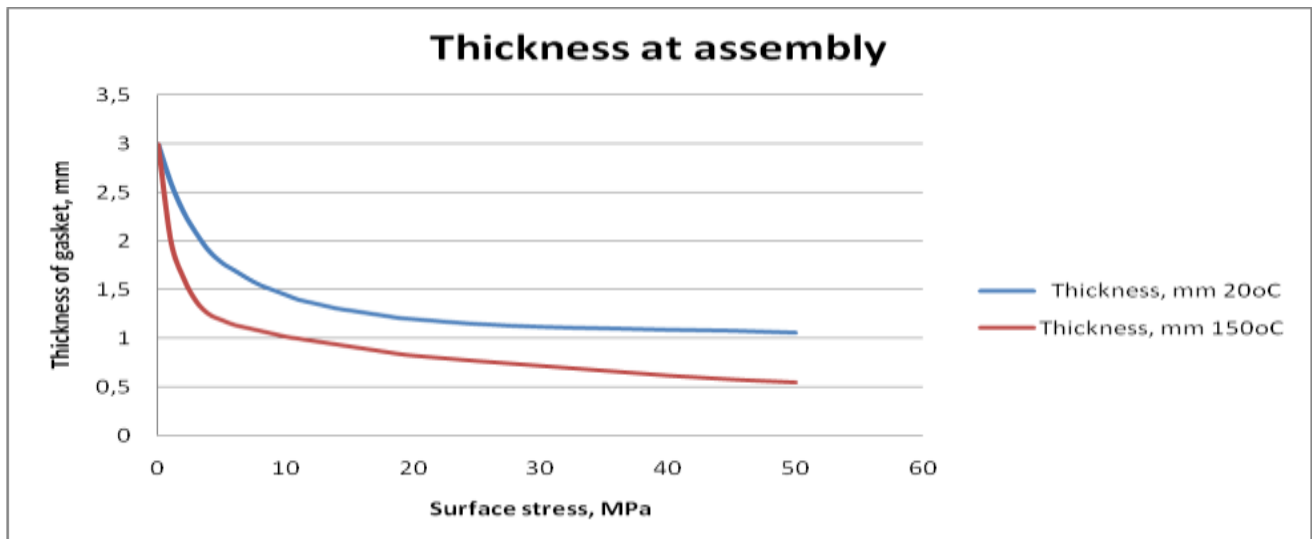
Tightness Class, L	Standard	Value	Conditions
$Q_{min} / L_{0,01}$	EN 13555	18	He 10 bar
$Q_{S min} / L_{0,01}$	EN 13555	5	He 10 bar
$Q_{min} / L_{0,01}$	EN 13555	27	He 40 bar
$Q_{S min} / L_{0,01}$	EN 13555	10	He 40 bar
$Q_{min} / L_{0,0001}$	EN 13555	33	He 10 bar
$Q_{S min} / L_{0,0001}$	EN 13555	5	He 10 bar
$Q_{min} / L_{0,0001}$	EN 13555	38	He 40 bar
$Q_{S min} / L_{0,0001}$	EN 13555	19	He 40 bar



Data is related to gaskets with thickness 3mm.

**“m” and “y” values (2mm, 80bar): 2.5 and 20<sup>(1)</sup>**

<sup>(1)</sup>For different pressure and tightness levels – please contact AVKO® team.



**PRODUCED BY: AVKO® JSC**

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The information listed in this TDS is based on our company's trials and experience. AVKO® JSC is not to be held responsible for poor installation or application in media combining complex of factors whose total exceeds the general qualities of the product. AVKO® JSC reserve the right to change the details given without notice. Our technical and sales representatives will assist any client in need of a product with a peculiar application.