

PRODUCT  
REFERENCE:

# Unigraph 500®

DESCRIPTION: **Unigraph 500®** is a new asbestos free sheet material graphite based with special polymer coating both sides.This jointing sheet is a **PATENT** of FMI.

Anti-stick.

COLOUR  
SERVICE:

Black

**Unigraph 500®** is recommended for industrial application involving high sealing stress and chemical resistance. It can be used with steam and a wide range of media (with the exception of strong oxidising agents at extreme temperature and high pressure).

It is recommended when a superior load retention at elevated temperature and an excellent creep relaxation value are required.

Thanks to its characteristics avoids flanges pitting.

Maximum temperature: 650°C (inert or reducing media)

Maximum working temperature: 450°C (oxidising media)

Minimum recommended temperature: -200°C

Maximum recommended pressure: 10 MPa (100 bar)

Note: temperatures and pressure values can not be reached simultaneously.

**MATERIAL  
COMPLIANCE  
AND APPROVALS**

KTW - BAM

TYPICAL  
PHYSICAL  
PROPERTIES:

Thickness:	1.50 mm
Density	1.15 g/cm <sup>3</sup>
Compressibility EN 13555	40 %
Recovery EN 13555	≥ 33 %
ASTM F152 Tensile Strength	≥ 25 MPa
Gas permeability DIN 3535-4	< 0,01 ml / min
ASTM OIL 3 thk increase 5 h at 150°C	2 %
ASTM FUEL B thk increase 5 h at 150°C	3.4 %
Creep Relaxation Value	< 8 %

AVAILABILITY: Standard sheet size: 1.5 m x 1.5 m;  
On request sheet size: 1,5 x 2 / 3 / 4 m  
Tolerance: +/- 50 mm  
Thickness range: 0.5 to 5.0 mm  
Tolerance: +/-10%

This technical data sheet is a results of laboratory test, FMI is issuing this data sheet as a pure informative document

**Quality system accredited ISO 9001:2000**