**PRODUCT- INFORMATION**: 10.2002

# *ePTFE–MOAX* – JOINT SEALANT

## MATERIAL PROPERTIES:

MOAX-JOINT SEALANT consists of virginal, expanded PTFE. By the manufacturing process, a microporous fibrous structure is produced which gives the product it´s unique mechanical properties. For fixing onto the sealing surface there is a glue strip on the flat tape forms which is covered with a protective tape. For various applications the MOAX-*flat seals* and the MOAX-*round seals* are available in diverse dimensions.
With increasing surface pressure MOAX-JOINT SEALANT keep a sufficient height to protect the sealing surface and to avoid damage of components. Even under extreme operating conditions there are only minimal changes in width, so sealing pressures are maintained.
Sufficient high pressures on the sealing area are achievable with the MOAX-JOINT SEALANT even at low linear forces. Safety is thereby maintained also with sensitive flanges.

## PRODUCT DATA:

*MATERIAL* –
pure virginal PTFE with expanded, microporous fibrous texture

*CHEMICAL RESISTANCE* –
pH 0 to 14
resistant to all media, with the exception from solved and molten alkaline metals, as well as elemantary fluorine at T>150°C and p> 40 bar (T>423 K and p>4 Mpa)

*RESISTANCE TO AGEING* –
in the permissible area of application there is no ageing of MOAX-JOINT SEALANT.
Depending on stocking conditions the adhesive force of the backside glue strip can decrease.

*TEMPERATURE RANGE* –
-240°C to +270°C, intermittent to +315°C (-400°F to +518°F, intermittent to +600°F)

*PHYSIOLOGICALLY HARMLESS* –
contains only ingredients conforming to FDA 21 requirements for use in contact with food FDA21CFR 177.1550 (a) (1) and (b)

*PRESSURE RANGE* –
the pressure range depends on installation- and working parameters

*SPECIFIC MAXIMUM FORCE AT REPTURE* -
exceeding 1200 N*cm/g

## FIELD OF APPLICATION:

*FLANGES* –
all types of flanges in frictional connection

*COMPONENTS* –
e.g. pipeline, component- and machine housings, pumps, apparatus, compensators, ventilation- and air-conditioning systems

*MATERIALS* –
e.g. FRP, glass, ceramics, graphite, aluminum, steel and rubber-coated materials

## DIMENSION RECOMMENDATION:

| | |
|---|---|
| - DN 50 | 3x1,5 mm |
| - DN 200 | 5x2 mm |
| - DN 600 | 7x2,5 mm to 10x3 mm |
| - DN 1500 | 10x3 mm to 12x4 mm |
| DN 1500 - | 12x4 mm to 40x5 mm |

## TEST AND CERTIFICATIONS:

*BAM :* For the user of floanges from steel-, copper- and copper alloys with flat sealing areas and rooved flangesup to oxygen pressures of 100 bar (10 Mpa) and temperatures up to 90°C (363 K)

*DVGW:* Suitable for gas supply applications up to pressures of 16 bar (1,6 Mpa) and temperatures from –10°C to +70°C (263 K to 343 K), has been established by tests

*TÜV:* Product characteristics and production, voluntarily examined and monitored by TÜV