

POWER[®]fлон FR

Product name:	POWER [®] fлон FR	Material data sheet No.:	D – 0087-0-EN	Date:	15. 08. 2013
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Material properties:

POWER[®]fлон FR is a non-asbestos gasket material made from pure virgin PTFE and dimension-stabilizing filler material. The whole production process is subject to strict quality control, registered under DIN ISO 9001.

Application areas:

POWER[®]fлон FR is particularly well suited for narrow sealing surfaces, high assembly pressures, high operating temperatures, thermal cycling. It also compensates well for out-of-parallel and/or damaged sealing surfaces.

Typical applications are heat exchangers, large containers, tank lids, pump housings, flanges, hand- and manholes, etc.



Technical data:

Temperature range: 240 °C up to +270 °C, for short periods up to +310 °C

Chemical resistance: resistant against all chemicals from pH 0-13, except molten alkali metals and elemental fluorine at high temperature and pressure. Limited applicability for highly concentrated caustic media at temperatures above 100 °C

Pressure resistance: vacuum up to 40 bar

Density: 1,0 g/cm³, ± 0,1g/cm³

Aging resistance: **POWER[®]fлон FR** does not age (please note: adhesive tape has limited shelf life!) and is UV-resistant

Colour: white

Product standard and recommended dimensions:

POWER[®]fлон FR is available on spools, with or without self-adhesive strip.

POWER [®] fлон FR dimension (mm)	standard flange size
6 x 2,5	up to DN 600
8 x 3,5	from DN 600 up to DN 1200
10 x 5,0	DN 1200 and larger

When choosing the best suitable dimension of **POWER[®]fлон FR**, one has to take the available bolt torque and possibly damaged and/or out-of-parallel gasket surfaces into account.

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Commercial advantages:

- quick and simple installation (please pay attention to - and/or ask for - the installation instructions)
- reduced down time
- no waste
- no cost for gasket-cutting
- long gasket life
- low stock cost
- unlimited shelf life (Please note: adhesive tape has limited shelf life!)

Gasket parameters according to DIN 2505 (tentative standard):

pre-forming parameters $K_0 \times K_D$

at 6 bar $K_0 \times K_D = 23 \times B_D$ (N/mm)

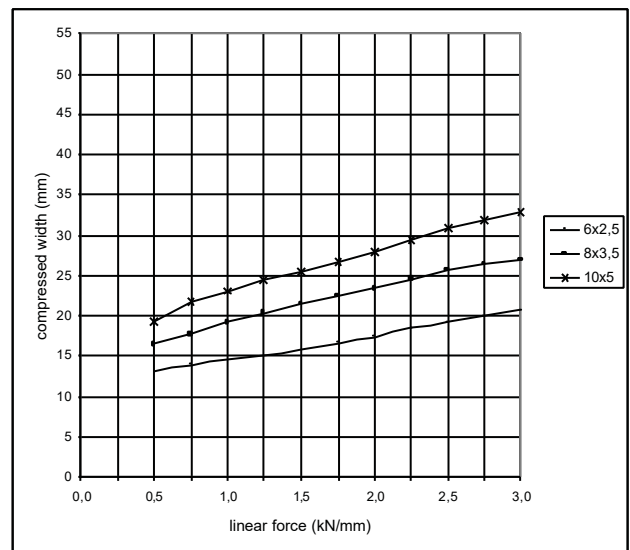
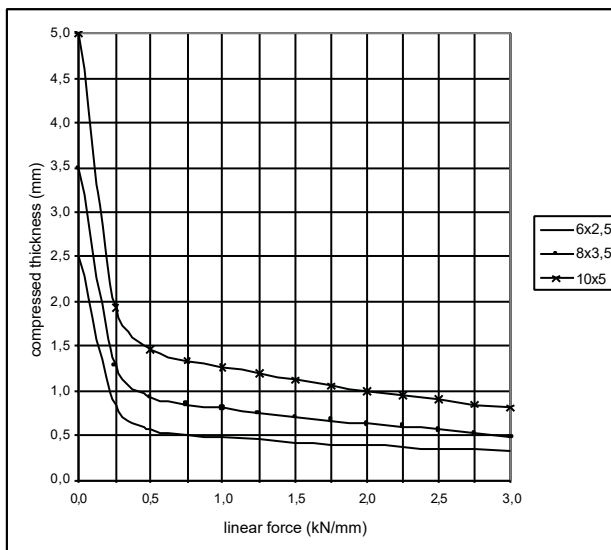
at 16 bar $K_0 \times K_D = 28 \times B_D$ (N/mm)

at 40 bar $K_0 \times K_D = 32 \times B_D$ (N/mm)

characteristic value under operating conditions K_1

$K_1 = 2,5 \times B_D$; B_D = width under compression;

Deformation values of FR at ambient temperature:



The above curves represent the average values as determined from extensive test series.



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All technical data and recommendations given are based on our experiences. However, we do not undertake any liability whatsoever. All data and values have to be checked by the user, since the effectiveness of a seal can only be judged correctly by evaluating all data and parameters directly on site. The stated parameters are approximate and may be mutually influenced if occurring together. Please contact us in case of difficult or special applications.

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