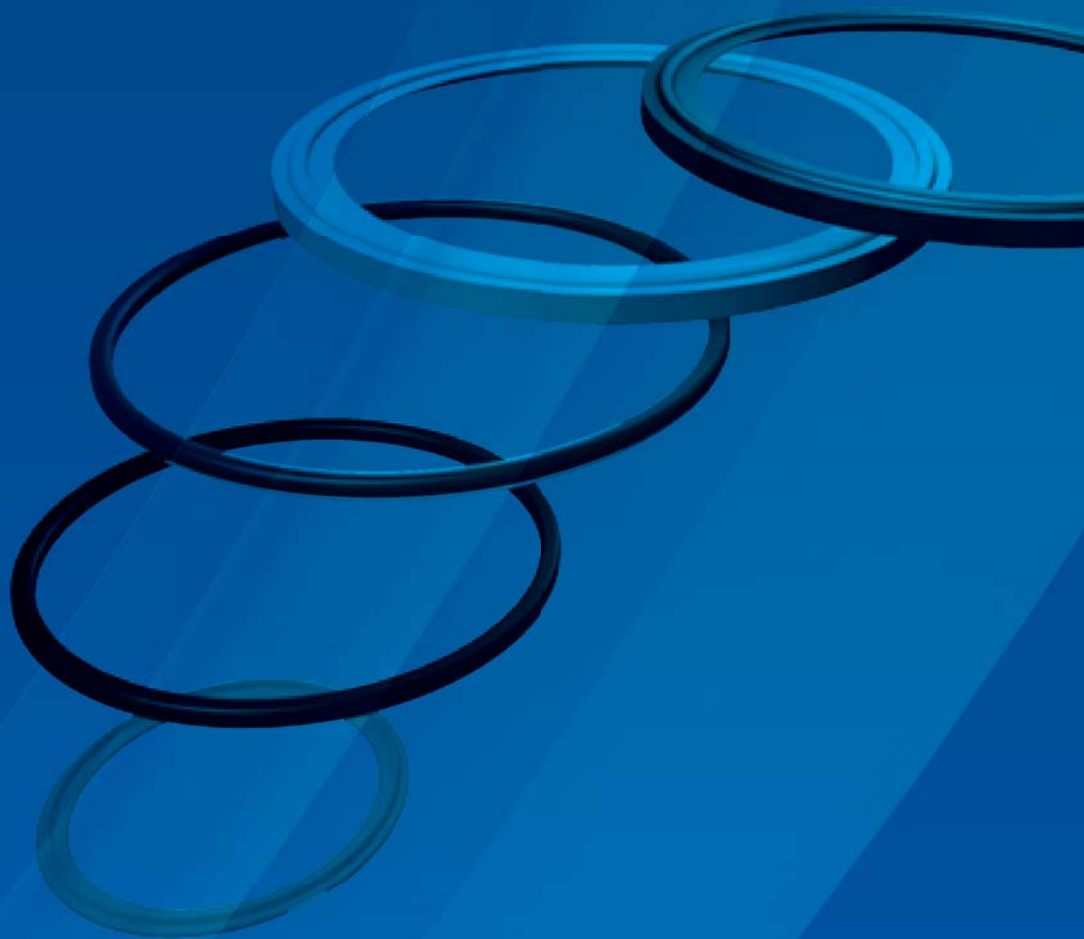


COMPOUND SELECTION FOR **FLUIDS AND CHEMICALS**



DOCKWEILER GASKETS SPECIFICATION

| | |
|-----------------------------|--|
| Material | EPDM, PTFE, Silicone (VMQ), Viton® (FKM), PTFE/FKM, Tuf Flex® 1), Tuf Steel® 1) |
| Dimensions | Imperial: 1/4" - 6" ISO: 13,50 - 114,30 mm Metric: 6,00 - 154,00 mm |
| Technical Terms of Delivery | DIN 32676, ASME BPE, U.S. Pharmacopeia Class VI Certification, FDA, Animal derived ingredients free (ADI) |
| Durability | Please see durability table |
| Surface | Cleaned, free of oil and fat according to DW cleaning specification |
| Quality control | Verification of manufacturer documentation Verification of dimensions, Visual control |
| Marking | Laser engraved |
| Marking information | Subject to technical realization the gaskets are permanently marked with the following information in the order stated below: 1. Dockweiler (DW) and Dockweiler number 2. Material 3. Dimension 4. Flange size |
| Documentation | According to pharmaceutical standards |
| Packing options | Single packed, multiple packing: 10, 25, 50 pcs./package |
| Label | Logo Dockweiler number Batch / Barcode Material Dimension Flange size |

1) Available only in imperial dimensions

COMPOUND SELECTION FOR FLUIDS AND CHEMICALS

| Material acc. to ASTM D1418 | Application | Comment | Temperature variations | Continuous steam | Unpolar solvents | Polar solvents | Acid+ active Oxygen | Acid | Alkaline | Steam Cycles | Hardness | Density | Compression set | | | Temperature range / °C | | Temperature range / °F | |
|-----------------------------|--|--|------------------------|------------------|------------------|----------------|---------------------|------|----------|--------------|----------|---------|-----------------|-------|----------|------------------------|-----|------------------------|-----|
| | | | | | | | | | | | | | % | hours | T / °C/F | Min | Max | Min | Max |
| Tuf-Steel® | pharmaceutical applications, ultrapure water and critical food and beverage processes | stable to temperature variations, no flow properties like PTFE material: composite of stainless steel 316L and PTFE | + | ++ | ++ | ++ | ++ | ++ | ++ | 100 | 68 | 3,45 | 5 | 24 | 175/347 | -70 | 260 | -94 | 500 |
| Tuf-Flex® | pharmacy, biotechnology, ultrapure water, WFI and critical food and beverage processes | full seal effect even in case of wide temperature variations material: PTFE grafted onto an inner EPDM core | ++ | ++ | ++ | ++ | ++ | ++ | ++ | 100 | 82 | 1,28 | 7 | 24 | 150/302 | -70 | 180 | -94 | 356 |
| PTFE / FKM | food and pharmaceutical applications, pharmacy, biotechnology | extended service life due to inert PTFE coat material: FKM with PTFE coat | (+) | ++ | ++ | ++ | ++ | ++ | ++ | | 45 | 1,90 | 15 | 24 | 175/347 | -60 | 180 | -76 | 356 |
| PTFE | pharmacy, biotechnology, ultrapure water | long service life, not recommended for wide temperature variations material: Perfluor-Ethylene | o | ++ | ++ | ++ | ++ | ++ | ++ | | 45 | 2,10 | 18,5 | 70 | 200/392 | -15 | 230 | 5 | 446 |
| VMQ | pharmacy, biotechnology | very flexible even at low temperatures material: platinum-cured silicone | + | + | o | - | + | + | o | | 65-75 | 1,20 | 20 | 24 | 175/347 | -60 | 200 | -76 | 392 |
| FKM | general use for process equipment in pharma and biotechnology | flexible even at low temperatures, suitable for many solvents material: Perfluor-Rubber | + | ++ | ++ | o | + | + | + | | 80 | 1,85 | 13 | 24 | 175/347 | -20 | 210 | -4 | 410 |
| EPDM | general use for process equipment, not recommended for SIP | suitable for low pressure steam material: Ethylene-Propylene-Diene-Rubber, Peroxide cured | + | ++ | - | + | + | + | + | | 70±5 | 1,25 | 10 | 24 | 150/302 | -40 | 140 | -40 | 284 |

++ excellent
 + good
 (+) satisfactory
 o moderate
 - not suitable

* Dockweiler AG does not take liability for improper use
 Table is subject of change without notification

