ProPack
DICHTUNGEN UND PACKUNGEN AG

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WORLDWIDE IN
SEALING TECHNOLOGY



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Trapez-Pack®30

High purity carbon fiber with PTFE based impregnation
and paraffin run in lubricant

- Excellent standardization factor
- Cross-section density impregnation prevents penetration of crystallizing products
- Wear resistant to abrasive products, yet minimal coefficient of friction, shaft surface hardness HRC 45 recommended
- Gentle on shafts and very good thermal conductivity
- Thermally balanced design, i.e., coefficient of expansion similar to steel, volume stable, low shrinkage, therefore only minimal adjustment is required
- Very good chemical resistance

This packing type is one of the most robust pump- and agitator packing styles in our program.
It utilizes the good thermal conductivity, wear resistance and low shrinkage of carbon yarn. The trapezoidal braid ensures a soft footprint of the packing on the shaft surface

QUESTIONS & ANSWERS ABOUT GLAND PACKING

QUESTION: WHICH IS BETTER, PRE-CUT OR PRE-COMPRESSED PACKING RINGS?	**QUESTION:** CAN A PACKING RUN DRY?	**QUESTION:** WHEN TO USE BULLRINGS?
This depends on the application. Basically, the positive effect of precompression is greater with dry, unlubricated valve packing than with pump packing containing oil. A valve packing should always be precompressed. This makes installation easier because the natural consolidation behavior of the packing is anticipated. Pump packing will also benefit from precompression by improving dimensional accuracy and smoothing the surface texture. If pump packing is required with a 45-degree skive cut, precompression is also recommended because it improves the integrity of the cut. Pre-compressing packing does no harm in any case, with one exception! Heavily worn shafts in slurry pumps are preferably sealed only with precut, non-compacted packing, because the packing then embeds itself better in the unevenness of the shaft.	At very low surface speeds of the shaft, e.g., in an agitator with top entry drive, this is possible, especially if the packing itself is high thermal conductive. Likewise, a suitable packing with a very high graphite content can survive a partial, short-term dry running situation of a pump without major damage. This is especially true if the packing has already been in service for some time and is well run-in. These are exceptions, because every dynamically used packing needs a lubricating film on which it slides, and which dissipates the frictional heat generated between the packing and the shaft through leakage.	If the gap between the gland or throat ring and the shaft of a pump is more than 5 % of the packing X Section, it is worthwhile to prevent extrusion and to use special bottom- and end rings. These can be made from a lower extrusion packing type, from a machined bushing, e.g. from carbon or PTFE compounds, or also gasket material. For valves with must be sealed at much higher pressures, a maximum gap width of only 2 % is recommended.

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