



Klinger 44

A high purity, high performance, graphite based packing for both valve and pump applications.

Klinger 44 is one of the Klinger TopLine range of compression packings.

This is an optimised range introduced to provide users with gland sealing products that meet today's demanding services, offering effective and trouble-free sealing during application. To achieve this we have selected the best materials and the best production methods. The result is the Klinger TopLine range.

Ongoing test and development in line with the Klinger philosophy will ensure the continued improvement of the TopLine products.

■ *Klinger 44 is produced from pure graphite yarn which*

Klinger then lubricate with mineral oil and graphite. Klingerlock braided yielding a packing that is consistently dense with excellent volumetric stability.

■ *The result is a high performance packing offering reliable sealing performance in both valve and pump applications.*

■ *The base graphite yarn means the packing has excellent capability in dynamic applications and the additional graphite lubricant acts as a further blocking agent to improve sealing.*

■ *K44 will resist virtually all media over an extensive range of pressures and*

temperatures and is only affected by the presence of powerful oxidisers.

■ *Although frequently employed on its own, the packing can be used as part of a specialised composite set in conjunction with either Klinger 3222 packing or Klinger 35 die-formed rings. Within these sets K44 acts as both supporting anti-extrusion rings and wiper rings.*



Certificate No FM.10571

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Service Capabilities

When used in equipment in good mechanical condition and installed using our product guidelines the undernoted values apply:

■ Minimum operating Temperature	-240°C
■ Maximum operating temperature	430°C
■ Maximum steam temperature	650°C
■ pH	0-14
■ Maximum static pressure	150 bar (installed as main seal) 680 bar (as anti-extrusion rings)
■ Maximum dynamic pressure	8 bar
■ Maximum Speed	25 m/s

Note: The packing should not be subjected to the maximums of temperature, pressure and speed simultaneously, for further advice please contact our technical department.

Forms of Supply

Klinger packings are offered in a range of standardised packages:

Size:
3mm to 25mm

Length:
8 metres per box

by weight:
sizes under 9.5mm 1kg/box
9.5mm to 12.5mm 2kg/box
sizes over 12.5mm 4kg/box

Alternative lengths and weights can be offered upon request, please contact Klinger for further details.

Klinger 44 has been specially developed for multipurpose use in all high temperature and pressure valves and also within pumping applications:

- Chemical Plant & Chemical processing
- Petrochemical Plants
- Power Stations
- Refineries
- Boiler Houses

Technical Advice

If you require additional technical information or would like Klinger to advise you on a particular application, then contact our Technical Department at the address shown.

It is advantageous to provide the following details:

1. Type of valve or pump
2. Working and test pressure
3. Temperature - steady or cycling
4. Rate of pressure & temperature increase
5. Medium and concentration
6. Operating speed
7. Special requirements
8. Details of stuffing box design