



# 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.*



aerospace  
sector  
certification  
scheme

BS EN 9100:2003, ISO 9001:2008  
Certificate no: FM 10571

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# TopLine Packing 44

## 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 is suitable for use as a general valve and pump packing within many industries, for example;**

- 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