



# Klinger 40

**An exceptional packing combining carbon and Inconel® to produce a product for sealing valve glands in high pressure and high temperature applications.**

*Klinger 40 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 40 is manufactured from a base yarn of high purity carbon which incorporates microfibre wires of Inconel® and a lubricant of selected non-migratory graphite.*

- *The additional graphite lubricant improves the sealing effect of Klinger 40, producing a dense non-porous matrix. It also improves the frictional properties of the packing, to allow easy operation of any valve stem once installed.*

- *The incorporation of Inconel wire enhances the packings performance in high-pressure applications. The wire is encapsulated to ensure excessive steam wear is eliminated.*

*K40 has excellent chemical resistance and is unaffected by the majority of acids, alkalis, solvents and greases. (For further information on chemical compatibility please contact Klinger)*

- *Often employed on its own Klinger 40 can also be incorporated as part of a composite set with either K3222 or die-moulded K35 rings. Within this configuration the main function of K40 is to act as anti-extrusion rings and to provide a stem cleaning action.*



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

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# TopLine Packing 40

## Service Capabilities

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

- Minimum operating Temperature **-100°C**
- Maximum operating temperature **430°C**
- Maximum steam temperature **650°C**
- pH **0-14**
- Maximum static pressure **200 bar**
- Maximum Speed **1.5 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 40 is suitable for use as a general valve and pump packing within many industries, for example;**

- Petrochemical Plants
- Chemical Processing
- Power Stations
- Refineries
- Steel Mills
- 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

