



# 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 microfine 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 stem 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.



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	-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 packing in valves operating at high temperatures and pressures, within 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, please contact our Technical Department at the address shown.

It is advantageous to provide the following details:

1. Type of valve or pump e.g. gate etc.
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

