



# Klinger 4313

**TopLine hybrid packing that combines the properties of Aramid and PTFE resulting in an excellent dynamic packing for rotary and reciprocating duties.**

*K4313 is only one of the Klinger TopLine range of compression packings.*

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

*Ongoing Test & Development in line with Klinger philosophy will ensure the continued improvement of the TopLine products.*

- *Klinger 4313 is manufactured from a combination of aramid and graphite encapsulated PTFE yarns using the Klingerlock braiding technique. The result is a packing with high resistance to extrusion that will operate at high peripheral speeds.*
- *The PTFE/Graphite element, which is K4313's running surface, is soft and forgiving. Shaft wear is therefore kept to a minimum. It is a self-lubricating packing and has the ability to operate at temperatures up to +260°C*
- *The strong aramid corner posts resist extrusion from the stuffing box while ensuring that unwanted particles are excluded. This reduces the detrimental effects of abrasive and viscous media.*
- *Both constituents of Klinger 4313 enable this TopLine packing to resist attack from a wide range of media, including chemicals.*



aerospace  
sector  
certification  
scheme

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

**Head Office**  
**KLINGER Ltd**  
Wharfedale Road  
Euroway Trading Estate  
Bradford BD4 6SG

Tel: 01274 688 222  
Fax: 01274 688 549

# TopLine Packing 4313

## 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 **280°C**
- Maximum steam temperature **280°C**
- pH **2-12**
- Maximum static pressure **250 bar**
- Maximum rotary pressure **25 bar**
- Maximum recip pressure **350 bar**
- Maximum running speed **20 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 4313 is suitable for use as a general valve and pump packing within many industries, for example;**

- Pulp & Paper Mills
- Mines & Quarries
- Petrochemical Plants
- Power Stations
- Refineries
- Steel Mills
- Sewage Works

## 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