



KLINGER

Gland Packing



KLINGER Mechanical Gland Packing - Select the correct product for the job.

KLINGER has a comprehensive range of **LOCALLY MANUFACTURED** compression packing, which are suitable for centrifugal or reciprocating pumps, agitators, screw conveyors and valves. KLINGER's range includes patented specialised mechanical gland packing and concepts which assist our customers to meet, and in most cases exceed the stringent fugitive emission targets set by various environmental bodies and customers themselves.

K466M - A universal packing for centrifugal pumps, boiler feed water pumps and valves in high pressure and temperature applications. Wear resistant and gentle on pump shafts, sleeves and valve stems. The excellent heat transfer capabilities of carbon along with the lubricant used to manufacture KLINGER Style K466M makes this packing ideal for power generation and petrochemical process plants.

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-----------------------------------|--------------------------------------|----------|--------|--|
| K466M | 650°C - Steam Oxidising - 430°C | 34 Bar (Rotating) 115 Bar (Static) | 20 M/S | 0 - 14 | Rotating, Reciprocating, Static & Valves |

K3222 - A cross braided expanded graphite packing. KLINGER Style K3222 forms a solid graphite bush within the stuffing box creating a high pressure low emission seal. Ideal for use in the power generation, petrochemical and cryogenic applications. K3222 is available as K3222W and K3222K with wire reinforcing for use in high pressure valves.

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-------------|----------|----------|--------|-------------------|
| K3222 | 450°C | 180 Bar | 8 M/S | 0 - 14 | Rotating & Valves |
| K3222W | 450°C | 190 Bar | 0 M/S | 0 - 14 | Valves |
| K3222K | 450°C | 200 Bar | 0 M/S | 0 - 14 | Valves |

STYLE 333 - Made of ultra-high purity graphite fibre with helically braided inconel wire inside. The core is extra dense to provide dimensional stability throughout the working temperature/pressure range of Style 333. Braid blockage is provided by a unique dispersion containing ultra fine graphite particles locked in place by the SealRyt® patented process.

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-------------|----------|----------|--------|-----------------------|
| Style 333 | 454°C | 360 Bar | N/A | 0 - 14 | Soot Blowers & Valves |

STYLE 396 - A dense version of braided flexible graphite with effective placement of high purity carbon filament yarns to resist extrusion and maintain density in the stuffing box at high temperature. Style 396 may be used on valves with anti-extrusion bullrings (see Style 333) for excessive clearances and ultra high pressures. Style 396 is most effective at controlling fugitive emissions.

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-------------|----------|----------|--------|---------------------------------|
| Style 396 | 454°C | 172 Bar | N/A | 0 - 14 | Rotating, Soot Blowers & Valves |

STYLE 396C - The most effectively designed wire reinforced graphite product on the market today for the sealing of fugitive fuel emissions. Style 396C meets or exceeds all requirements of A.P.I. 589 and 607 tests as well as the A.P.I. fire test for soft-seated quarter-turn valves.

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-------------|----------|----------|--------|--|
| Style 396C | 454°C | 310 Bar | 13 M/S | 0 - 14 | Rotating, Reciprocating, Soot Blowers & Valves |

K35 - Preformed graphite packing ring sets are produced with spirally wound 1.0g/cm³ expanded graphite tape and compressed to produce a graphite ring with a density that can range from 1.2 to 2.0 g/cm³ depending on service duty.

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-------------|----------|----------|--------|-----------------|
| K35 | 430°C | 300 Bar | 5 M/S | 0 - 14 | Static & Valves |

K2168 - A low cost general purpose gland packing manufactured from high quality natural yarns and lubricated with graphite wax. KLINGER Style K2168 is suitable for less demanding applications.

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-------------|----------|----------|-------|-------------------|
| K2168 | 55°C | 15 Bar | 5 M/S | 6 - 9 | Rotating & Static |

K2170 - A low cost general purpose gland packing manufactured from high quality natural yarns and lubricated with our famous proprietary Doulon®. KLINGER Style K2170 is suitable for less demanding applications.

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-------------|----------|----------|-------|----------------------------------|
| K2170 | 55°C | 15 Bar | 6 M/S | 6 - 9 | Rotating, Reciprocating & Static |

K4307 - Superior flax yarns that are cross braided and impregnated with PTFE and additional sea water resistant lubricants. As flax yarns are particularly strong and have higher rot resistance, this packing is suitable for centrifugal pumps, valves and shaft seals that are in contact with fresh water or sea water. KLINGER Style K4307 is an ideal packing for use in the agricultural and marine industries.

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-------------|----------|----------|-------|--|
| K4307 | 90°C | 15 Bar | 10 M/S | 4 - 9 | Rotating, Reciprocating, Static & Valves |

THE INFORMATION WE REQUIRE

| S | T | A | M | P | P |
|------|-------------|-------------|-------|----------|----|
| SIZE | TEMPERATURE | APPLICATION | MEDIA | PRESSURE | PH |

K10 - A high quality economy grade packing manufactured from a combination of glass and acrylic yarns, cross braided and impregnated with PTFE lubricant. KLINGER Style K10 is an excellent general purpose packing. Ideally suitable for high speed pumping, valve stem and reciprocating applications.

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-------------|----------|----------|--------|--|
| K10 | 175°C | 15 Bar | 10 M/S | 4 - 10 | Rotating, Reciprocating, Static & Valves |

K20 - KLINGER Style K20 has the ability to handle a wide range of chemicals as well as light slurry applications. Style K20 manufactured from glass and acrylic yarns and lubricated with our proprietary Doulon® lubricant, providing excellent heat transfer and lubricating properties for extended life and low shaft wear.

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-------------|----------|----------|--------|--|
| K20 | 175°C | 15 Bar | 12 M/S | 4 - 10 | Rotating, Reciprocating, Static & Valves |

K4313 - A unique cross braided packing that is made from a combination of PTFE, with a graphite inclusion and aramid multi-filament yarns on the corners. The strong aramid corners resist extrusion from the stuffing box while ensuring that unwanted solids are excluded.

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-------------|----------|----------|--------|----------------------------------|
| K4313 | 260°C | 40 Bar | 20 M/S | 2 - 12 | Rotating, Reciprocating & Static |

K25 - Aramid fibre packing impregnated with a PTFE dispersion. It is recommended for use in media containing suspended solid abrasive particles. For use in pumps, mixers, valves and knife gates. Ideal for heavy duty slurry applications in the pulp & paper, agriculture and mining industries.

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-------------|----------|----------|--------|--|
| K25 | 260°C | 30 Bar | 15 M/S | 2 - 12 | Rotating, Reciprocating, Static & Valves |

K7302DL - Various high strength modified aramid yarns result in a packing with high lubrication retention ability resulting in low shaft or sleeve wear. Ideal for use in high pressure and high speed pumping applications. KLINGER Style K7302DL is the market leading slurry packing. Also available with a PTFE lubricant. **Exclusive to KLINGER**

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-------------|----------|----------|--------|----------------------------------|
| K7302DL | 260°C | 36 Bar | 16 M/S | 2 - 12 | Rotating, Reciprocating & Valves |
| K7302 | 260°C | 36 Bar | 16 M/S | 2 - 12 | Rotating, Reciprocating & Valves |

K7301 - A dry general purpose packing for doors, cover seals on boilers, ovens, furnaces, rotary kiln seals, brickwork bumper seals and electrode seals in arc furnaces. Available in round, square or rectangular cross section, from 3mm up to 200mm.

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-------------|----------|----------|-------|---------------------|
| K7301 | 700°C | 5 Bar | 0 M/S | 3 - 9 | Static Sealing Only |

K7301/C - A dry general purpose packing manufactured from ceramic yarns that resists temperatures up to 900°C in static applications. The thermal insulation properties of ceramic fibre products makes this product a leader in sealing industrial furnaces, boiler doors and rotary kilns. Available in sizes ranging from 3mm to 200mm (square, twisted & round).

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-------------|----------|----------|-------|---------------------|
| K7301C | 900°C | 5 Bar | 0 M/S | 3 - 9 | Static Sealing Only |

K49 - A high quality, cross braided PTFE yarn with graphite inclusion that gives the packing several distinct advantages; high speed, low shaft and sleeve wear, no graphite migration and no contamination of the process media.

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-------------|----------|----------|--------|----------------------------------|
| K49 | 260°C | 30 Bar | 22 M/S | 0 - 14 | Rotating, Reciprocating & Valves |

K54S/F/H - An excellent PTFE packing for plant wide use especially when a clean, non-contaminating packing is required with a very high degree of chemical resistance. Can be used in virtually all media including strong acids and alkalis. Suitable for use in oxygen service up to 20 Bar pressure in valves. The ideal packing for use in tanker lid seals.

| Product Code | Temperature | Pressure | Velocity | pH | Services |
|--------------|-------------|----------|----------|--------|--|
| K54/S/F/H | 260°C | 20 Bar | 20 M/S | 0 - 14 | Rotating, Reciprocating, Static & Valves |

"S"- Food Processing | "F"- Oxygen Service | "H"- Added Lubrication



