



The Packing Solution for Diverse Sealing Needs



RitePak® Packing
Flexible, Resilient, Proven Reliability



Rite@Pak®

Packing Quick Select Guide



General Service:

Non-abrasives, water, oil, mild acids & alkalis. Mid-range pH.

Operating Temperature: up to 500°F / 260°C

Style Selections: 1335, 1340



Abrasive Service:

Abrasives (wet or dry), waste water, salt water, acids, mid-range caustics.

Operating Temperature: up to 500°F / 260°C

Style Selections: 1345, C1064, K1730



Chemical Service:

PTFE based packings, dry or lubricated. pH 0 to 14.

Operating Temperature: up to 550°F / 288°C

Style Selections: C1045, C1050, C1065, C1070

Food Service:

FDA compliant PTFE. pH 0 to 14.

Operating Temperature: up to 500°F / 260°C

Style Selections: C1056



High Temperature Chemical Service:

Chemical resistant carbon and graphite packings. pH 0 to 14.

Operating Temperature: up to 1200°F / 650°C

Style Selections: 1625G, 1627, G57, G58

High Temperature & Pressure Service:

Babbitt and aluminum foil packings for high pressure. pH 4 to 10.

Operating Temperature: up to 1000°F / 538°C

Style Selections: 100AL, 100M

Valve Service:

Steam, high pressure, emission control or general service.

Operating Temperature: from ambient to 5432°F / 2970°C

Style Selections: 387I, G58I, Crane-foil™, C1051VS

Lubrication Components:

Virgin PTFE lantern ring strip stock, various cross sections, 4 ft. lengths. pH 0 to 14.

Operating Temperature: up to 500°F / 260°C

Style Selections: TFE Lantern Ring Strip

Universal Gasketing:

Expanded virgin PTFE multi-purpose gasket tape. pH 0 to 14.

Operating Temperature: up to 550°F / 288°C

Style Selections: C1051 Joint Sealant

RitePak Packing Standard Packaging (in inch sizes)

Styles: 1335, 1340, 1345, 1627, C1045, C1050, C1056, C1064, C1065, C1070, G57, G58, K1730.

Valve Service - 387I, G58I

Size	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1
Box Type	A B	A B	A B	A B	A B	A B	A B	C	C	C	C	C
Ft/Box	100 500	45 225	25 125	18 90	12 60	10 50	7 35	50	40	25	20	16

All sizes also available in 25 & 50 pounds reels. Styles 1345, C1064 and G57 are not available in 1/8"

Style 1625G

Size	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1
Box Type	A B	A B	A B	A B	A B	A B	A B	C	C	C	C	C
Ft/Box	100 500	45 225	25 125	18 90	12 60	10 50	7 35	25	25	25	20	16

All sizes also available in 25 & 50 pounds reels

Styles: 100M*, 100AL

Size	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1
Box Type	S	S	S	S	S	S	S	S	S	S	S	S
Ft/Box	42	40	40	40	18	18	18	18	18	16	12	12

*Not available in 1/8, 3/16, 7/8, 1"



STYLE 1335

Temperature:
-170°F / -110°C
to 500°F / 260°C

pH Range:
2 to 12

Speed:
2250 fpm / 11m/s

Pressure:
Pump: 300 psi / 20 bar
Valve: 1000 psi / 68 bar

Material: synthetic fiber, PTFE,
lubricating oil

Construction: lattice braid

Application Media: non-abrasives,
water, mild acids & caustics, gases,
oils, steam, solvents

Equipment: rotating & reciprocating
equipment, valves, expansion joints

Industry Served: General Industry,
Agriculture, Marine, Pulp & Paper,
Power Generation, Oil & Gas,
Municipal / Wastewater



STYLE 1340

Temperature:
-170°F / -110°C
to 500°F / 260°C

pH Range:
4 to 10

Speed:
2000 fpm / 10 m/s

Pressure:
Pump: 300 psi / 20 bar
Valve: 1000 psi / 68 bar

Material: synthetic fiber,
petrolatum, graphite

Construction: lattice braid

Application Media: non-abrasives,
water, mild acids & caustics, gases,
oils, steam

Equipment: rotating & reciprocating
equipment, valves

Industry Served: General Industry,
Agriculture, Marine, Oil & Gas,
Power Generation, Municipal /
Wastewater



STYLE 1345

Temperature:
-170°F / -110°C
to 550°F / 288°C

pH Range:
0 to 12

Speed:
2500 fpm / 13m/s

Pressure:
Pump: 500 psi / 34 bar
Valve: 4000 psi / 275 bar

Material: polyimide, PTFE,
lubricating oil

Construction: lattice braid

Application Media: abrasives, water,
acids & medium caustics, gases, oils,
steam, solvents, waste water, slurries,
paper stock, liquors, asphalt, fly ash,
condensate

Equipment: rotating & reciprocating
equipment, valves

Industry Served: Pulp & Paper,
Municipal / Wastewater, Marine,
Chemical & Pharmaceutical, Mining
& Minerals, Oil & Gas, Steel &
Metals, Power Generation



STYLE C1045

Temperature:
-450°F / -268°C
to 500°F / 260°C

pH Range:
0 to 14

Speed:
1000 fpm / 5 m/s

Pressure:
Pump: 300 psi / 20 bar
Valve: 5000 psi / 245 bar

Material: PTFE filament, PTFE dispersion

Construction: lattice braid

Application Media: chemicals, solvents, corrosives, gases, water, steam, ammonia, air, oils, paper stock, liquor

Equipment: rotating & reciprocating equipment, valves, expansion joints

Industry Served: Chemical & Pharmaceutical, Pulp & Paper, General Industry



STYLE C1050

Temperature:
-450°F / -268°C
to 500°F / 260°C

pH Range:
0 to 14

Speed:
2000 fpm / 10 m/s

Pressure:
Pump: 300 psi / 20 bar
Valve: 4000 psi / 275 bar

Material: PTFE filament, PTFE dispersion, lubricating oil

Construction: lattice braid

Application Media: chemicals, solvents, corrosives, gases, water, steam, ammonia, air, oils, paper stock, liquor

Equipment: rotating & reciprocating equipment, valves, expansion joints

Industry Served: Chemical & Pharmaceutical, Pulp & Paper, General Industry



STYLE C1056

Temperature:
-450°F / -268°C
to 500°F / 260°C

pH Range:
0 to 14

Speed:
2000 fpm / 10 m/s

Pressure:
Pump: 300 psi / 20 bar
Valve: 2500 psi / 170 bar

Material: FDA compliant PTFE filament, lubricating oil

Construction: lattice braid

Application Media: food, chemicals, solvents, corrosives, gases, water, steam, oils

Equipment: rotating & reciprocating equipment, valves

Industry Served: Food & Beverage, Chemical & Pharmaceutical



STYLE C1064

Temperature:
-350°F / -212°C
to 550°F / 288°C

pH Range:
2 to 12

Speed:
2500 fpm / 12.5 m/s

Pressure:
Pump: 500 psi / 34 bar

Material: expanded PTFE w/graphite,
Aramid, lubricating oil

Construction: lattice braid

Application Media: abrasives, water,
medium acids & medium caustics,
oils, steam, solvents, waste water,
slurries, paper stock, liquors,
asphalt, fly ash, condensate

Equipment: rotating & reciprocating
equipment

Industry Served: Pulp & Paper,
Municipal / Wastewater, Oil & Gas,
Chemical & Pharmaceutical, Mining
& Minerals, Steel & Metals, Power
Generation



STYLE C1065

Temperature:
-350°F / -212°C
to 550°F / 288°C

pH Range:
0 to 14

Speed:
4300 fpm / 22 m/s

Pressure:
Pump: 300 psi / 20 bar
Valve: 4000 psi / 275 bar

Material: expanded PTFE w/graphite,
lubricating oil

Construction: lattice braid

Application Media: chemicals,
solvents, corrosives, gases, water,
steam, ammonia, air, oils, paper
stock, liquor, condensate

Equipment: rotating & reciprocating
equipment, valves, expansion joints

Industry Served: Chemical &
Pharmaceutical, Pulp & Paper, Oil &
Gas, General Industry, Agriculture,
Steel & Metals, Marine, Power
Generation, Municipal / Wastewater



STYLE C1070

Temperature:
-350°F / -212°C
to 550°F / 288°C

pH Range:
0 to 14

Speed:
3000 fpm / 15 m/s

Pressure:
Pump: 300 psi / 20 bar
Valve: 4000 psi / 275 bar

Material: PTFE filament w/graphite,
lubricating oil

Construction: lattice braid

Application Media: chemicals,
solvents, corrosives, gases, water,
steam, ammonia, air, oils, paper
stock, liquor, condensate

Equipment: rotating & reciprocating
equipment, valves, expansion joints

Industry Served: Chemical &
Pharmaceutical, Pulp & Paper, Oil &
Gas, General Industry, Agriculture,
Steel & Metals, Marine, Power
Generation, Municipal / Wastewater



STYLE 1625G

Temperature:
In Atmosphere:
-300°F / -185°C to
850°F / 455°C
In Steam: up to
1200°F / 650°C

pH Range:
0 to 14

Speed:
4000 fpm / 20 m/s

Pressure:
Pump: 500 psi / 34 bar
Valve: 2500 psi / 170 bar

Material: graphite filament,
light PTFE

Construction: lattice braid

Application Media: chemicals,
solvents, corrosives, gases, water,
steam, ammonia, air, oils, paper
stock, liquor, condensate, boiler
feed water

Equipment: rotating & reciprocating
equipment, valves, soot blowers,
expansion joints

Industry Served: Chemical &
Pharmaceutical, Power Generation,
Oil & Gas, Pulp & Paper, Municipal /
Wastewater, Mining & Minerals, Steel
& Metals



STYLE 1627

Temperature:
In Atmosphere:
-300°F / -185° to
850°F / 455°C
In Steam: up to
1200°F / 650°C

pH Range:
0 to 14

Speed:
4000 fpm / 20 m/s

Pressure:
Pump: 500 psi / 34 bar
Valve: 2500 psi / 170 bar

Material: carbon filament,
colloidal graphite

Construction: lattice braid

Application Media: chemicals,
solvents, corrosives, gases, water,
steam, ammonia, air, oils, paperstock,
liquor, condensate, boiler feed water

Equipment: rotating & reciprocating
equipment, valves, soot blowers,
expansion joints

Industry Served: Chemical &
Pharmaceutical, Power Generation,
Oil & Gas, Pulp & Paper, Municipal /
Wastewater, Mining & Minerals, Steel
& Metals



STYLE K1730

Temperature:
-400°F / -240°C
to 500°F / 260°C

pH Range:
2 to 12

Speed:
2000 fpm / 10m/s
w/excursions to
2500 fpm / 13m/s

Pressure:
Pump: 500 psi / 34 bar

Material: Aramid, PTFE, lubricating oil

Construction: lattice braid

Application Media: abrasives, water,
medium acids & medium caustics,
oils, steam, solvents, waste water,
slurries, paper stock, liquors, asphalt,
fly ash, condensate

Equipment: rotating & reciprocating
equipment

Industry Served: Pulp & Paper,
Municipal / Wastewater, Oil & Gas,
Chemical & Pharmaceutical, Mining
& Minerals, Steel & Metals, Power
Generation



STYLE G57

Temperature:
In Atmosphere:
-400°F / -240°C to
850°F / 455°C
In Steam: up to
1200°F / 650°C

pH Range:
0 to 14

Speed:
4500 fpm / 23 m/s

Pressure:
Pump: 500 psi / 34 bar
Valve: 4300 psi / 296 bar

Material: flexible graphite, carbon filament, colloidal graphite

Construction: lattice braid

Application Media: chemicals, solvents, corrosives, gases, water, steam, ammonia, air, oils, paper stock, liquor, condensate, boiler feed water

Equipment: rotating & reciprocating equipment, valves, soot blowers, expansion joints

Industry Served: Chemical & Pharmaceutical, Power Generation, Oil & Gas, Pulp & Paper, Municipal / Wastewater, Mining & Minerals, Steel & Metals, General Industry



STYLE G58

Temperature:
In Atmosphere:
-400°F / -240°C to
850°F / 455°C
In Steam: up to
1200°F / 650°C

pH Range:
0 to 14

Speed:
4000 fpm / 20 m/s

Pressure:
Pump: 400 psi / 27.5 bar
Valve: 4300 psi / 296 bar

Material: flexible graphite

Construction: lattice braid

Application Media: chemicals, solvents, corrosives, gases, water, steam, ammonia, air, oils, paper stock, liquor, condensate, boiler feed water

Equipment: rotating & reciprocating equipment, valves, soot blowers, expansion joints

Industry Served: Chemical & Pharmaceutical, Power Generation, Oil & Gas, Pulp & Paper, Municipal / Wastewater, Mining & Minerals, Steel & Metals, General Industry



STYLE G58I

Temperature:
In Atmosphere:
-400°F / -240°C to
850°F / 455°C
In Steam: up to
1200°F / 650°C

pH Range:
0 to 14

Speed:
not recommended
for rotary service

Pressure:
Valve: 4300 psi / 296 bar

Material: flexible graphite, Inconel wire

Construction: lattice braid

Application Media: chemicals, solvents, corrosives, gases, water, steam, ammonia, air, oils

Equipment: valves

Industry Served: Power Generation, Steel & Metals, Pulp & Paper, General Industry, Marine, Mining & Minerals, Oil & Gas, Chemical & Pharmaceutical



STYLE 387I

Temperature:
In Steam: up to
1200°F / 650°C

pH Range:
2 to 12

Speed:
not recommended
for rotary service

Pressure:
Valve: 4300 psi / 296 bar

Material: fiberglass, Inconel wire, colloidal graphite

Construction: round braid over extruded core

Application Media: steam

Equipment: valves

Industry Served: Power Generation, Steel & Metals, Pulp & Paper, General Industry, Marine, Mining & Minerals, Oil & Gas, Chemical & Pharmaceutical



STYLE 100AL

Temperature:
up to 1000°F / 538°C

pH Range:
4 to 10

Speed:
1800 fpm* / 9 m/s
*Recommended
shaft/sleeve hardness 500
Brinell/60 Rockwell "C"

Pressure:
Pump: 1000 psi / 68 bar
Valve: 2500 psi / 170 bar

Material: aluminum foil, fiberglass, graphite, oil

Construction: spiral wrapped

Application Media: water, steam, mild acids & caustics, gases, oils (for HF acid service use Style 124 all aluminum packing. Contact local John Crane representative.)

Equipment: rotating & reciprocating equipment

Industry Served: Power Generation, Oil & Gas, Chemical & Pharmaceutical



STYLE 100M

Temperature:
up to 450°F / 233°C

pH Range:
4 to 10

Speed:
3600 fpm / 18 m/s

Pressure:
Pump: 1000 psi / 68 bar

Material: Babbitt foil, Neoprene, graphite, oil

Construction: spiral wrapped

Application Media: water, steam, boiler feed water, mild acids & caustics, gases, oils

Equipment: rotating & reciprocating equipment, expansion joints, still necks

Industry Served: Power Generation, Oil & Gas



STYLE C1051

Temperature:
-400°F / -240°C
to 550°F / 288°C

pH Range:
0 to 14

Speed: not applicable

Pressure:
vacuum to
3000 psi / 206 bar

Available Cross Sections:
in inches - 1/8, 3/16, 1/4,
3/8, 1/2, 5/8, 3/4, 7/8, 1
Various Lengths

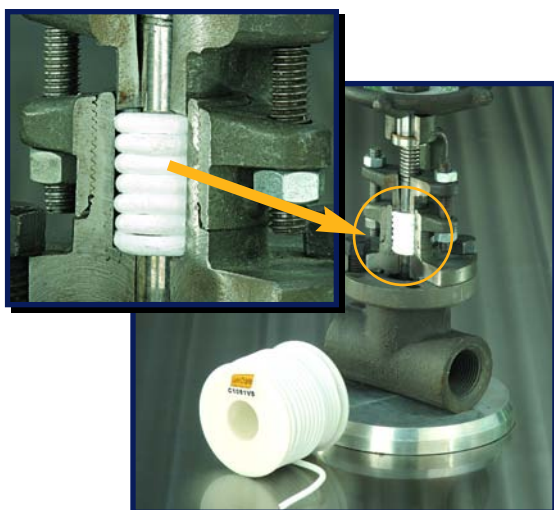
Material: 100% expanded virgin PTFE

Construction: extruded w/adhesive
tape back strip

Application Media: chemicals,
solvents, corrosives, gases, water,
steam, ammonia, air, oils, paper stock,
liquor, condensate, boiler feed water

Equipment: metal, plastic & glass lined
flanges, pump casings, gear boxes, con-
tainers & lids, vessels & traps, hydraulics
& pneumatic systems, water supply sys-
tems, handholes / manholes, ducts, heat
exchangers, irregular services, etc.

Industry Served: General Industry,
Agriculture, Marine, Pulp & Paper,
Power Generation, Oil & Gas, Municipal /
Wastewater, Chemical & Pharmaceutical,
Food & Beverage, Mining & Minerals,
Steel & Metals



STYLE C1051VS

Temperature:
-400°F / -240°C
to 550°F / 288°C

pH Range:
0 to 14

Speed:
150 fpm / 0.75 m/s

Pressure:
Valve: 500 psi / 34 bar

Available Diameters:
in inches - 1/16, 3/32,
1/8, 5/32, 3/16,
7/32, 1/4, 9/32, 5/16,
11/32, 3/8, 1/2

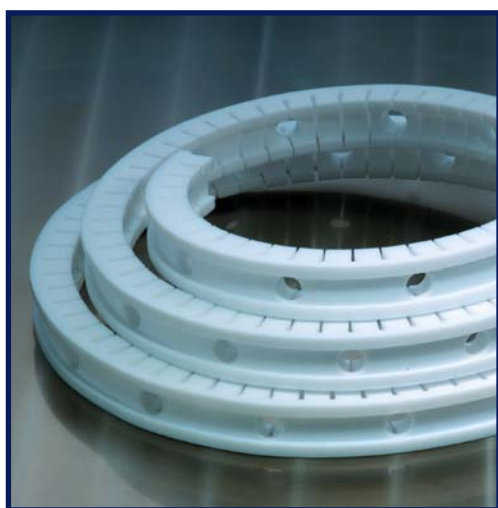
Material: 100% virgin PTFE

Construction: extruded round

Application Media: chemicals,
solvents, corrosives, gases, water,
steam, ammonia, air, oils, paper
stock, liquor, condensate, boiler
feed water

Equipment: faucet stems & valves

Industry Served: General Industry,
Agriculture, Marine, Pulp & Paper,
Power Generation, Oil & Gas,
Municipal / Wastewater, Chemical &
Pharmaceutical, Food & Beverage,
Mining & Minerals, Steel & Metals



Lantern Rings

Temperature:
-400°F / -240°C
to 500°F / 260°C

pH Range:
0 to 14

Speed:
not applicable

Pressure:
Pump: 1000 psi / 68 bar

Available Cross Sections:
in inches - 1/4, 5/16,
3/8, 7/16, 1/2, 9/16,
5/8, 3/4, 7/8, 1
Various Widths

Material: 100% virgin PTFE

Construction: 4 foot strip

Application Media: chemicals,
solvents, corrosives, gases, water,
steam, ammonia, air, oils, paper
stock, liquor, condensate, boiler
feed water

Equipment: rotating & reciprocating
equipment, valves

Industry Served: General Industry,
Agriculture, Marine, Pulp & Paper,
Power Generation, Oil & Gas,
Municipal / Wastewater, Chemical &
Pharmaceutical, Food & Beverage,
Mining & Minerals, Steel & Metals



Crane-foil™

Temperature:

In Atmosphere: -400°F /
-240°C to 850°F / 455°C

In Non-Oxidizing
Atmosphere: up to
5432°F / 2970°C

In Steam: up to
1200°F / 650°C

pH Range: 0 to 14

Speed and Pressure:
dependent upon
application

Available Sizes:
die-formed rings
available in wide range
of sizes and various
densities.

Material: 100% flexible graphite,
commercial and nuclear grades

Construction: die-formed rings & tape

Application Media: chemicals, solvents,
corrosives, gases, water, steam, ammo-
nia, air, oils, paper stock, liquor, con-
densate, boiler feed water

Equipment: rotating & reciprocating
equipment, valves, soot blowers,
expansion joints

Industry Served: General Industry,
Agriculture, Marine, Pulp & Paper,
Power Generation, Oil & Gas, Municipal /
Wastewater, Chemical &
Pharmaceutical, Food & Beverage,
Mining & Minerals, Steel & Metals

Tapes:

Thickness: .005", .010", .015", .025"

Widths: .25", .50", .75", 1"

Lengths: .25', .50', 100' ft.

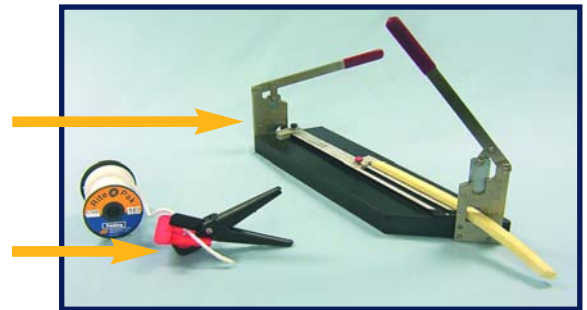
Type: plain or crinkled, with or
without adhesive back.

Guillotine Type: For precision butt or diagonal cut joint cuts.
Max. Cross Section: butt cut up to 1", diagonal cut up to 3/4".
Various size cutters for inside ring diameters: small to 4",
medium to 10", large to 15".

Spare component parts also available.

Hand Type: Easily carried in your tool kit. Joint Type: butt and
diagonal cuts. Max. Cross Section: butt cut up to 3/4", diagonal
cut up to 5/8".

Spare cutting blades available.



Packing Cutters

Installation Bushings & Cutting Mandrels: Ideal compliment
for use with your John Crane packing tool kit. Avoid the risk of
scoring the shaft or sleeve by using it as a cutting mandrel.
Properly seat rings individually with John Crane installation
bushings.

Available in a wide variety of diameters and lengths.



Installation Tools

Tool Kits: Make your job easier by using the proper tools.

Available Kits:

Deluxe - 36 piece (as shown)

Medium - 17 piece (hooks, picks, tips, wrench, case only)

Small - 11 piece (hook, picks, tips, wrench, case only)

Also available as individual components.

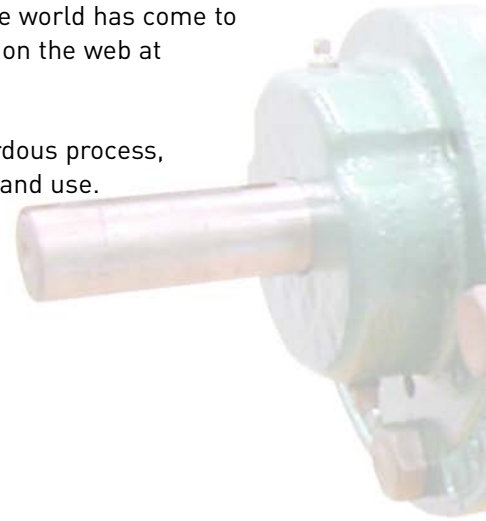


Tool Kits

The products contained in this bulletin represent a select range of materials that will handle the vast majority of sealing solutions in today's marketplace. In addition to these standard products John Crane manufactures a wide range of specialty items, servicing specific markets and applications. Our dedicated engineering staff is here to assist from the simplest to the most complex applications.

John Crane is continually researching new materials to meet your increasing service demands, and is dedicated to maintaining the high-quality standard of performance the world has come to know and expect from a world leader in the sealing industry. Please visit us on the web at www.johncrane.com

If the products featured will be used in a potentially dangerous and/or hazardous process, your John Crane representative should be consulted prior to their selection and use.



Customer Service:

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smiths

For your nearest John Crane facility, please contact the location above.

If the products featured will be used in a potentially dangerous and/or hazardous process, your John Crane representative should be consulted prior to their selection and use. In the interest of continuous development, John Crane Companies reserve the right to alter designs and specifications without prior notice. It is dangerous to smoke while handling products made from PTFE. Old and new PTFE products must not be incinerated.