

# Setting Compression Packings



Packings for Valves and Pumps

 **CARRARA®**  
PACKINGS AND GASKETS



Std square size mm	Box std Kg	Box std lbs	Std size square inch
3 mm to 5 mm	1.0	2.2	1/8" to 3/16"
6 mm to 12 mm	2.5	5.5	1/4" to 1/2"
14 mm to 25 mm	5.0	11	9/16" to 1"
Bigger than 25 mm	On request	On request	On request
Square bigger than 25 mm and rectangulaire on request		Square bigger than 1 inch and rectangulaire on request	

P.S. The carbographite products are not compatible with the strong oxidants in particular with oleum, aqua regia, fuming nitric acid, and fluoride in high concentration.

The data given are based on the decennial experience acquired by the producer and can be modified by Carrara S.p.a. without notice. The P, T and Speed parameters are mutually correlated. Do not use the products associating simultaneously their maximum values without consulting Carrara S.p.a.



### GR8807 INCOBRAID®

**INCOBRAID® GR8807.** Special packing in pure graphite yarn with discontinued metallic microreinforcement. The special impregnation occurs in three phases: on the single yarns, on the packing body and on its surface. Inorganic corrosion inhibitor is present in the impregnation.

#### RECOMMENDED USES

Packing for thermoelectric and petrochemical plants H.P.- H.T. valves; recommended wherever resistance to

temperature and long life time is requested.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	300	4500	1	200	0 ÷ 14	-100/+450* +650**	-150/+840* +1200**
	80	1200	1,5	300			

\* with oxidizing products \*\* with steam



### GR8800/R

**GR8800/R.** Pure graphite yarn packing with continuous metallic reinforcement. The impregnation occurs in three phases: on the single yarns, on the packing body and on its surface. Inorganic corrosion inhibitor is present in the impregnation.

#### RECOMMENDED USES

Packing for valves recommended in the applications on service valves in presence of steam and process fluids at

high temperature.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	300	4500	1	200	0 ÷ 14	-100/+450* +650**	-150/+840* +1200**

\* with oxidizing products \*\* with steam





## GR8888

**GR8888.** Special graphite braid with high content of carbon (99%) twisted and doubled in order to be very flexible to the stress and to the cambers. All the threads are pretreated with a special graphite in dispersion mixture with addition of corrosion inhibitors.

### RECOMMENDED USES

Packing recommended for high temperature dynamic applications; does not reduce in volume and does not vitrify.



## GR8800

**GR8800.** Pure graphite yarn packing. The impregnation occurs in three phases: on the single yarns, on the packing body and on its surface. Inorganic corrosion inhibitor is present in the impregnation.

### RECOMMENDED USES

Recommended in the applications on service valves and pumps. In presence of steam, hot water (boiler feeding pumps), process fluids and petroliferous products.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	200	3000	1	200	0 ÷ 14	-100/+450* +650**	-150/+840* +1200**
	20	300	3	600			
	40	600	30	6000			

\* with oxidizing products \*\* with steam

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	200	3000	1	200	0 ÷ 14	-100/+450* +650**	-150/+840* +1200**
	20	300	2	400			
	40	600	25	5000			

\* with oxidizing products \*\* with steam



## C8207 INCOBRAID®

**INCOBRAID® C8207.** Special packing in pure carbon yarn with discontinued metallic microreinforcement. The special impregnation occurs in three phases: on the single yarns, on the packing body and on the surface. Inorganic corrosion inhibitor is present in the impregnation.

### RECOMMENDED USES

Packing for steam service valves, process fluids and petroliferous products.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	200	3000	1	200	2 ÷ 12	-100/+500	-150/+940
	80	1200	1,5	300			



## C8300/R

**C8300/R.** Packing in pre-oxidated carbographite yarn with continuous metallic reinforcement. The impregnation occurs in two phases: on the packing body and on the surface. Inorganic corrosion inhibitor is present in the impregnation.

### RECOMMENDED USES

Packing for steam service valves, process fluids and petroliferous products M.P. - M.T.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	200	3000	1	200	2 ÷ 14	-50/+500*	-60/+940*

\* peak limit



## C8200

**C8200.** Pre-oxidated carbographite yarn packing. The impregnation occurs in two phases: on the packing body and on the surface. Inorganic corrosion inhibitor is present in the impregnation.

### RECOMMENDED USES

Packing for general service on valves and steam service pumps, process fluids and petroliferous products M.P. - M.T.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	200	3000	1	200	2 ÷ 12	-50/+500*	-60/+940*
	100	1500	2	400			
	40	600	20	4000			

\* peak limit



## C8100

**C8100.** Pure carbon yarn packing, single impregnation, round and twisted section in order to be very flexible to the stress and the cambers. Inorganic corrosion inhibitor is present in the impregnation.

### RECOMMENDED USES

Specific packing for applications on boiler feeding pumps, process fluids and petroliferous products.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
					2 ÷ 12	-60/+500	-80/+940
	100	1500	1,5	300			
	40	600	25	5000			



## GR48/R

**GR48/R.** Packing constituted of pure mineral graphite strands without binders, with continuous metallic reinforcement.

### RECOMMENDED USES

Packing recommended for the maintenances in service of valves as middling rings of the seal sets in replacement of the endless rings in precompressed graphite.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	300*	4500*	1	200	0 ÷ 14	-100/+450** +650***	-150/+840** +1200***

\* used as middling rings \*\* with oxidant products \*\*\* with steam



## GR48

**GR48.** Packing constituted of pure mineral graphite strands without binders.

### RECOMMENDED USES

Packing recommended for the maintenances in service of valves as middling rings of the seal sets in replacement of the endless rings in precompressed graphite.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	300*	4500*	1	200	0 ÷ 14	-100/+450** +650***	-150/+840** +1200***

\* used as middling rings \*\* with oxidant products \*\*\* with steam



# Setting Compression Packings



## PT5504/S

**PT5504/S.** Packing made by using as support material very pure virgin PTFE in very thin threads. The impregnation occurs in two phases: on the individual yarn and on the packing body by immersion in dispersion.

### RECOMMENDED USES

Packing to be used for static uses and alternative movements with all the chemical, food-stuffs and pharmaceutical products.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	500	7500	1	200	0 ÷ 14	-200/+280	-330/+540
	150	2250	2	400			



## PT5504/L

**PT5504/L.** Packing for the most severe uses where only the pure PTFE ensures the sealing. Each fibre is lubricated with a heat dispersion in order to eliminate at the most the heat friction.

### RECOMMENDED USES

Because of the absolute chemical inertia of the PTFE this packing is recommended for dynamic uses with all the chemical, foodstuffs and pharmaceutical products.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	20	300	1	200	0 ÷ 14	-200/+280	-330/+540
	100	1500	2	400			
	50	750	8	1600			



## B1204 DINAWHITE

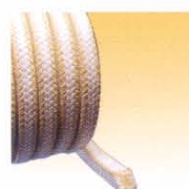
**B1204.** Specific packing for paper mills, made from with a fiber composed with high breaking load and very low dynamic coefficient of friction, which gives the product more resistance to wear and longer life.

### RECOMMENDED USES

Recommended for pulpers, agitators and paper mills pumps. The applicability can be extended to all those production installations where more resistance to wear is

requested to the packing.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
					1 ÷ 14	+100	+212
	50	750	15	3000			



## PT5600/K

**PT5600/K.** Packing produced with pure PTFE yarn with the four corners reinforced in aramid which give higher resistance to the extrusion and to the high pressures.

### RECOMMENDED USES

Does not stain, suitable for food and chemical industry, recommended for pumps, alternative pumps, agitators, valves in presence of acids, solvents and abrasive substances.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	500	7500	1	200	3 ÷ 12	-200/+280	-330/+540
	300	4500	3	600			
	150	2250	10	2000			



## GF7700

**GF7700.** Packing made from in pure yarn of expanded PTFE where graphite is encapsulated. The particularity of this yarn is to combine the qualities of the PTFE and of the graphite. The encapsulation of the graphite in the expanded PTFE eliminates the migration of the graphite and the thermic expansion.

### RECOMMENDED USES

Particularly suitable on centrifugal pumps. Fit for all the

fluids except strong oxidants.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	300	4500	1,5	300	0 ÷ 14	-200/+280	-330/+540
	200	3000	2	400			
	50	750	25	5000			



## GF4770

**GF4770.** Packing made from of pure yarn of PTFE encapsulated graphite, composed of expanded PTFE with graphite encapsulated. At difference of the GF7700 does not contain any lubricant and therefore permits a better tightening of the stuffing box and a superior resistance to the extrusion.

### RECOMMENDED USES

Particularly suitable on alternative motions at medium and high pressures and on valves at very high pressure. Fit for all the fluids except the strong oxidants.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	500	7500	1	200	0 ÷ 14	-200/+280	-330/+540
	200	3000	2	400			
	80	1200	10	2000			



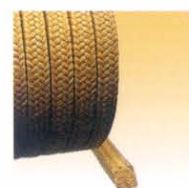
## GF7600/K

**GF7600/K.** Special packing manufactured with a particular processing process. Realized with PTFE yarn encapsulated graphite with aramid corners. Such combination improves the characteristics of resistance to extrusion and increases the resistance to the pressures.

### RECOMMENDED USES

Suitable for applications on pumps, alternative pumps, mixers, centrifuges, fit for food and chemical industry.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	350	5250	1,5	200	3 ÷ 12	-100/+280	-330/+540
	250	3750	3	600			
	70	1050	25	5000			



## K6600/C

**K6600/C.** Packing made from yarns in continuous aramid fibre, hardly inflammable and thermostable. Each thread is impregnated with dispersion of PTFE and silicone free inert lubricants.

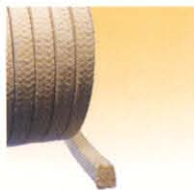
### RECOMMENDED USES

Packing suitable for use on mixers, centrifugal and alternative pumps, hatches and low pressure valves.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	100	1500	3	600	3 ÷ 12	-100/+280	-150/+540
	50	750	15	3000			



# Setting Compression Packings



## KD6604

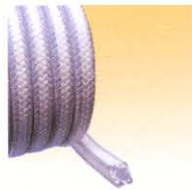
**KD6604.** Special packing produced from original and twisted long aramid fibre realized with "Strech Breacking" system. The impregnation occurs in three phases: one on the threads, a second during plaiting and the third in surface.

### RECOMMENDED USES

Packing suitable for paper mills and food industry suitable on centrifugal and alternative pumps, mixers

and agitators in presence of not very limpid fluids.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	100	1500	1,5	300	3 ÷ 12	-100/+250	-150/+480
	80	1200	2	400			
	30	450	20	4000			



## KD6605 DINACOMB

**KD6605.** Special packing produced of combed yarn in original and twisted long aramide fibre realized with "Strech Breacking" system, reinforced corners with PBI fibre. The impregnation occurs in three phases: one on the thread, a second during the braiding and the third in surface.

### RECOMMENDED USES

Evolved packing, suitable for paper mills and food industry, suitable on centrifugal and alternative pumps,

mixers and agitators.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	100	1500	1,5	300	3 ÷ 12	-100/+250	-80/+480
	80	1200	2	400			
	30	450	20	4000			



## C8104/L

**C8104/L.** Special packing made from a special thread with high content of carbon self-lubricating multifilament and impregnated with a special mixture of PTFE loaded with micronized very pure graphite.

### RECOMMENDED USES

Packing suitable for uses on centrifugal and alternative pumps in presence of petroliferous products, process fluids except strong oxidants.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	210	3150	1,5	300	1 ÷ 13	-60/+280	-80/+540
	100	1500	2	400			
	50	750	25	5000			



## N2609

**N2609.** Packing manufactured to offer a valid product at a very reasonable price. It is constituted of composite synthetic fibre at the intermediate stage of pre-oxidation, with graphite and silicone free lubricants base impregnation.

### RECOMMENDED USES

Packing suitable for applications on oils, steams, condensate, weak solvents, acids and weak alkalies at low temperatures.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	60	900	1	200	4 ÷ 10	-50/+250	-60/+480
	40	600	3	600			
	20	300	10	2000			



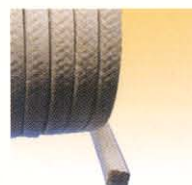
## N3404

**N3404.** Packing made from in synthetic fibre yarn expressly selected to answer the request of universal use product, impregnated in PTFE dispersion and silicone free lubricants.

### RECOMMENDED USES

Packing for general uses in centrifugal and alternative pumps, valves, agitators and mixers in the industry and installazioni civili (sewage).

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	100	1500	1,5	300	2 ÷ 12	-100/+250	-150/+480
	80	1200	2	400			
	50	750	15	3000			



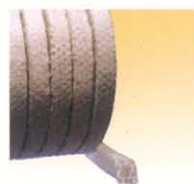
## R4804

**R4804.** Packing made from pure ramié yarn with special impregnation of PTFE. The product does not eat into the shafts and it is easily adjustable.

### RECOMMENDED USES

Packing suitable for centrifugal and alternative pumps in the paper mills, food and petroliferous industry in presence of oil, greases, water, fuels and weak solvents.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	100	1500	1,5	300	4 ÷ 11	-50/+120	-60/+240
	60	900	2	400			
	25	375	10	2000			



## V9944

**V9944.** Packing made from a volumized glass yarn from 6 to 9 micron, slightly twisted. The packing is impregnated with a special blend of concentrated PTFE and silicone free lubricants. Also realized in the non impregnated version (dry glass) V9900.

### RECOMMENDED USES

Packing suitable for general uses in presence of water, steam, oil, solvents and chemical products.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	60	900	1,5	300	2 ÷ 12	-50/+280	-60/+540
	40	600	2	400			
	20	300	15	3000			



## V9907

**V9907.** Packing made from in twisted taslanizzato glass fibre from 6 to 9 micron and impregnated with a special composite with high percentage graphite base, with a slight addition of lubricant and corrosion inhibitor.

### RECOMMENDED USES

Packing recommended for applications in hatches, for manhole, in presence of steams, fumes, oils, acids and basic substances.

	P bar	lbf/in <sup>2</sup>	Vm/S	f/pm	pH	T °C	°F
	200	3000			2 ÷ 12	-50/+500	-60/+940