

Graphite packing GRP 420

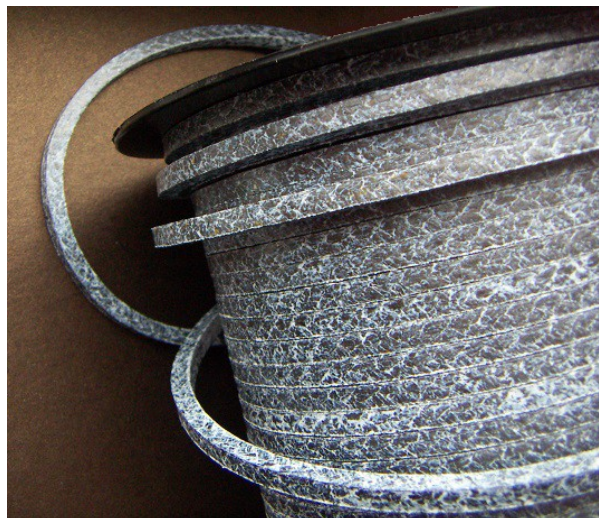
GRP 420 gland packing is braided of expanded graphite yarn with high purity class, same as other Grafopak series packings. This packing is additionally impregnated with PTFE dispersion for improving its flexibility and sliding properties.

Properties and advantages

This GRP 420 packing, as other graphite seals, has a very good thermal conductance, the low coefficient of friction and self-lubricating properties. Moreover, it has a higher tolerance for poor condition of a stuffing box and gives the tightness at lower pressure than packing made from pure graphite. It is also more flexible and easier to montage and formation in gland boxes of pumps.

Areas of application

The GRP 420 packing is designed for dynamic seals of pumps in contact with clear water. Because of its a high chemical resistance also it is suitable for working with hydrocarbons and other chemicals, but with an exception of strong oxidising and crystallizing media or abrasive liquids and media with the strong dynamic influence.



The GRP 420 packing with the PTFE addition has better plasticity and is easier to install compared to pure graphite rope.

Operating parameters - GRP 420

	Scope of application			
	Temperature	-100 to +200°C		
	p _{max} (bar)	25	n/a	100
	pH range	1 to 14 pH		
	V _L (m/s)	15	n/a	2
	Operating factors and use limits	Load ratio max pV ~ 300 bar·m/s Average bulk density ρ ~ 1,2 g/cc Minimal bush hardness ~ 30 HRC		

Range of sizes and packaging

In the mainstream of square profiles from S6 up to S25 with tolerance on level ±10%, the Grafopak packing are available in quick delivery, directly from stock. The table below presents the kind of packing, conversion factors and average roll lengths on unit packages.

Grafopak packing is delivered on spools of 2,5 or 5 kg. Delivery on reusable wooden spools weighing from 20 to 30 kg is also possible. The spools are packed in individual boxes and then collective cartons of 20 kg net. Regular deliveries are made on pallets in the amount of 16 or 20 cartons with a total net weight of 320 or 400 kg.



Square profiles [mm]	S6	S8	S10	S12	S14	S16	S18	S20	S22	S25
Linear mass weight [g/m]	51	86	130	175	240	310	400	480	580	750
Spool type	2,5 kg		5 kg					5 kg also 20 - 30 kg		
Converter to meters [m]	19	11,5	7,6	5,8	4,2	3,3	2,5	2,1	1,7	1,3
Roll length [m]	49	29	38	29	21	16,5	12,5	10,5	8,6	6,7