

KA 400 gland packing

Packing based on carbon fiber made of carbonized PAN yarn with addition of flake graphite. The Karbopak KA 400 packing is braided in a wide range of square profiles and impregnated with a special high-temperature lubricant in form of graphite dispersion.

Properties and advantages

KA 400 packing with a high carbon content guarantees good sliding and thermal properties as well as high mechanical strength. The addition of graphite improves the laminar lubrication effect, at the same time limits the risk of excessive shaft wear. The Karbopak KA packing is resistant to overheating and work in critical conditions, temporarily it can withstands temperatures up to 400°C.

Area of applications

KA 400 packing is designed for applications, where there is a risk of contamination by solid particles or strong dynamic interactions. Carbon packing can be used as face rings in sets with pure graphite to protect the seal against abrasive particles, similar as in sets with aramid packing.



Operating parameters - KA 400

	Scope of application			
	Temperature	-40 up to 200°C		
	p _{max} [bar]	15	300	100
	pH range	3 - 12 pH		
	V _L [m/s]	10	4	2
	Operating factors and use limits	Load ratio max pV ~ 150 bar·m/s Average bulk density ρ ~ 1,3 g/cc Minimal bush hardness ~ 40 HRC		

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Range of sizes and packaging

The Karbopak packing in the mainstream of square profiles with sizes from S6 up to S25 with tolerance on level ± 10% 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.

Gland packing is delivered on 2,5 or 5 kgs spools depends on its size and on 20 to 30 kgs on reusable spools for the biggest sections - according to the below table. The spools are packaged in carton boxes and a summary 20 kgs carton. Bigger orders are delivered on pallet with 20 or 16 cartons and weight 400 or 320 kgs net.



Square profiles [mm]	S6	S8	S10	S12	S14	S16	S18	S20	S22	S25
Linear mass weight [g/m]	52	89	135	185	260	330	420	520	620	810
Spool type	2,5 kgs		5 kgs					5 or 20 to 30 kgs		
Converter to meters [m]	19	11	7,4	5,3	3,8	3	2,4	1,9	1,6	1,25
Roll length [m]	48	28	37	27	19	15	12	9,6	8	6,2