

## Karbopak XR 640 gland packing

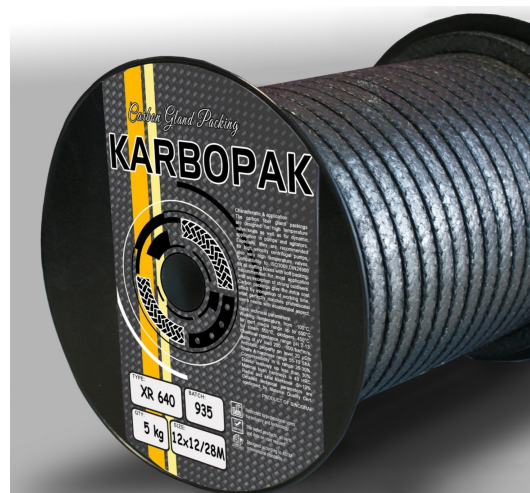
XR 640 packing is made of expanded graphite and high modulus carbon fiber C98 with addition of corrosion inhibitors and light PTFE impregnation, which guarantees tightness at lower gland pressure. Its braid is made in form of reinforced corners, which significantly affects the mechanical strength of seal, while keeping excellent sliding properties of graphite.

## Properties and advantages

Due to the combination of flexible graphite and carbon fiber, the Karbopak XR 640 is characterized by high mechanical strength, while keeping a low coefficient of friction, full chemical and thermal resistance up to 600°C, in extreme cases, for non oxidizing media up to 900°C.

## Areas of applications

Karbopak XR packing is designed for usage in dynamic seals operating at the highest parameters, where simultaneously high temperature, high pressure and high speed may occur together. The XR packing is also used as face rings in sealing graphite packing sets, where it can ensure excellent tightness, even though at the highest level if the API standard is required.



Karbopak XR is recommended for the highest parameters, where high temperature, pressure and high speed rotation may occur together.

## Operating parameters - XR 640

|  |                                  |                                                                                                         |     |     |
|--|----------------------------------|---------------------------------------------------------------------------------------------------------|-----|-----|
|  | Scope of application             |                                                                                                         |     |     |
|  | Temperature                      | -200 do 600°C                                                                                           |     |     |
|  | p <sub>max</sub> (bar)           | 30                                                                                                      | 200 | 300 |
|  | pH range                         | 1 to 14 pH                                                                                              |     |     |
|  | V <sub>L</sub> (m/s)             | 30                                                                                                      | 3   | 2   |
|  | Operating factors and use limits | Load ratio max pV ~ 500 bar·m/s<br>Average bulk density ρ ~ 1,15 g/cc<br>Minimal bush hardness ~ 40 HRC |     |     |

## Range of sizes and packaging

The main range of Karbopak packing sizes are square profiles from S6 to S30, with a tolerance of -5 /+10%. These sizes are available for fast delivery directly from stock. The below table shows the conversion factors and the average length of a unit packages.

Karbopak packing is packed on spools of 2,5 or 5 kg, depending on the size, in accordance with the table below. The spools are packed in collective cartons of 20 kg net. Delivery on reusable wooden spools weighing from 20 to 30 kg is also possible. Large orders are delivery on pallets in the amount of 20 cartons with a total weight of 400 kg.



| Square profiles [mm]     | S6     | S8 | S10  | S12 | S14 | S16 | S18                  | S20 | S22 | S25 | S30  |
|--------------------------|--------|----|------|-----|-----|-----|----------------------|-----|-----|-----|------|
| Linear mass weight [g/m] | 50     | 83 | 125  | 165 | 230 | 290 | 380                  | 460 | 560 | 790 | 1000 |
| Spool type               | 2,5 kg |    | 5 kg |     |     |     | 5 kg also 20 - 30 kg |     |     |     |      |
| Converter to meters [m]  | 20     | 12 | 8    | 6   | 4,4 | 3,4 | 2,6                  | 2,2 | 1,8 | 1,4 | 1    |
| Roll length [m]          | 50     | 30 | 40   | 30  | 22  | 17  | 13                   | 10  | 9   | 7   | 5    |