

TECHNICAL DATA SHEET

PACKING PTFE WITH A GRAPHITE FILLING, INTERIED WITH ARAMID

Hybrid packing braided from aramid yarn and graphited PTFE. Packing is braided in a characteristic zebra braid, where reinforcements are distributed laterally. Due to the special weave, the aramid fibres strengthen the packing evenly. The result is a very strong packing, which fits softly in the stuffing box chamber and evenly interacts with the rotating shaft or protective sleeve. PTFE with a graphite filling, interied with aramid packing is impregnated with PTFE dispersion to reduce the friction of aramid and achieve full tightness.



FEATURES

The aramid reinforcements protect the seal against rapid wear in a zone subject to strong medium influence. The PTFE weave provides flexibility, reduces friction and improves heat dissipation. PTFE with a graphite filling, interied with aramid packing is suitable for both centrifugal and piston pumps, but the zebra braid is more flexible and gives a better effect with small radius in centrifugal pumps.

APPLICATION

Aramid is particularly recommended for locking rings for media with strong dynamic influence or heavily contaminated with solid particles, such as drainage systems, sewage pumping stations and hydro-transport. The packing is used in centrifugal pumps and other devices operating in the environment of water, hot water, salt solutions, most acids and bases, fuels, oils and solvents and suspensions of solid particles of these media. The main recipients are the chemical, fertiliser and food industries.

Operating temperature	-100 °C to +280 °C
Ph range 1 – 13	2 - 12
Impeller pumps	$\rho=200$ bar $v=5$ m/s
Piston pumps	$\rho=30$ bar $v=20$ m/s
Armature	$\rho=300$ bar $v=2$ m/s

PACKING, STORAGE, TRANSPORT, DISPOSAL

The packing should be placed in bags or cardboard boxes. Store in conditions which prevent contamination and destruction. The material is not hazardous according to current European Union regulations and requires no additional labelling. The packing material is not hazardous, does not contain asbestos, formaldehyde and phenolic derivatives. They may be stored in industrial waste dumps; no special conditions are required. Properly selected, stored, assembled and operated packing do not pose any danger. Use protective gloves during assembly. There are no other hazards.

thickness [mm]	6	8	10	12	14	15	16	18	20	22	25
tolerance	+/- 0,5		+/- 0,8						+/- 1,0		
linear mass +/-15%	60	100	165	230	315	355	405	530	660	780	1030
Conversion rate (m/kg)	18,5	10,5	6,9	4,9	3,6	3,2	2,8	2,2	1,8	1,5	1,15
Spool type	2,5 kg		5 kg						5/20 kg		
Min. length (m)	46	26	34	24	18	16	14	11	8,9	7,5	5,8
elasticity	the packing shall not crack or delaminate										
Weight loss at elevated temperature	3 %										

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