Graphite + Carbon Fiber Packing

PA1003 Graphite packing reinforced with carbon fiber

The packing is braided from low sulphur expanded graphite yarns which are reinforced with high strength, high modulus continuous carbon fiber filament in each single yarn. It is then impregnated in mixture of graphite powder, molybdenum disulfide and PTFE emulsion, and processed with high temperature curing treatment. The packing shows excellent chemical stability, thermal conductivity, and high intensity.

PA1016 Graphite packing with carbon fiber corners

The packing is diagonally braided from expanded flexible graphite, with high quality carbon fiber filaments reinforced at the corners. This kind of structure makes its anti-extrusion capacity three times more than PA1000 packing, and also increases the compressive strength of the packing.

Applications:

PA1003 is particularly applicable to rotary pumps and reciprocating pumps with mediums of strong chemical corrosive, or containing particles.

PA1016 is widely used for both static and dynamic sealing applications. Particularly suitable for valves, pumps, expansion joints, mixers and agitators in high temperature and high pressure environments in paper mills, power stations and chemical plants.

Service Limits:

Style		**PA1003**	**PA1016**
Temperature		-220°C~+450°C (+650°C in steam)	
Pressure Shaft speed	Rotating	15bar, 20m/s	25bar, 20m/s
	Reciprocating	100bar, 2m/s	100bar, 2m/s
	Valve	200bar, 2m/s	200bar, 2m/s
PH range		0~14	
Density		1.25~1.45g/cm^3	1.3~1.5g/cm^3

Forms of Supply:

In coils, e.g. 5kgs or 10kgs per coil;
As packing rings (PR1003, PR1016).

Dimension Table:

For packings with density of 1.4g/cm^3

Size (mm)	5	6	8	10	12	14	15	16	18	20	25
Appr. m/kg	28.6	19.8	11.2	7.1	5.0	3.6	3.2	2.8	2.2	1.8	1.1
Appr. g/m	35.0	50.4	89.6	140.0	201.6	274.4	315.0	358.4	453.6	560.0	875.0
Kgs/coil	5									10	

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