



(South Africa) Industrial, Mining
& Automotive Supplies (Pty) Ltd.



DATA SHEET DPH Style D544 Packing

Description

D544 packing is made of an intricately braided yarn of high purity Expanded Graphite. The merit of Expanded Graphite packing is heightened by the use of Glass Fibre reinforcement rather than Cotton, to ensure high temperature compatibility without volume loss. This product has the characteristic heat dissipation qualities, as well as the low friction, good sealing ability, high chemical resistance and high compressibility properties of Expanded Graphite.

Construction

D544 is a braided packing constructed of Expanded Graphite fibre tape that has been formed into a yarn, with a Glass Fibre yarn as reinforcement.

Application

D544 works in both pump and valve applications. It has proven itself in the Petrochemical, Pulp and Paper and Power Generation industries. Especially useful in dryers, blowers, pulpers, digesters, agitators, mixers, high temperature steam valves and hydrocarbon valves, with the added advantage of reduced emissions as well.

Size and Weight

D544 Packing										
mm	3	4	5	6	7	8	10	11	12	13
inch	1/8	5/32	3/16	1/4		5/16	3/8	7/16	1/2	
m/kg	90	50	32	23	17	13	8.3	7	5.8	4.9
mm	14	15	16	18	19	20	22	24	25	
inch	9/16		5/8	11/16	3/4	13/16	7/8	15/16	1	
m/kg	4.5	4	3.5	2.7	2.5	2.2	1.9	1.7	1.5	

Specification

<u>Item</u>	<u>Unit</u>	<u>Magnitude</u>
Dimensional Deviation	mm	Axial 0.00 ~ +0.50 Radial 0.00 ~ -0.50
Carbon Content in Graphite	%	>98
Ash Content in Graphite	%	<1.5
Volumetric Density	g/cm ³	1.0 ~ 1.3
Compressibility	%	25 ~ 45
Resilient Rate	%	>15
Working Temperature	°C	-240 ~ +450 (Oxidising) -240 ~ +650 (Non-oxidising)
Pressure	bar	20 Rotary (Pumps) 250 Stationary (Valves - 9 rings)
Shaft Speed	m/sec	20
pH	pH	0 - 14
Ignition Loss	%	<10 (300°C @ 3 hours)
Friction Factor		<0.18
Total Sulphur Content	ppm	<1000
Total Chloride Content	ppm	<50
Total Metal Content	ppm	<500
Total Fluorine Content	ppm	<20