



Nexus Pump and Valve Packing

DATA SHEET



Nexus Style 2199 Packing

Description

Style 2199 packing is made of a tightly braided yarn of high purity Expanded Graphite and reinforced with multiple strands of Inconel wire. The benefit of Expanded Graphite packing is enhanced by the use of a Glass Fibre leader 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 as well as the added pressure capability due to the inclusion of multiple strands of Inconel wire inside the packing.

Construction

Style 2199 is a braided packing constructed of Expanded Graphite fibre tape that has been formed into a yarn, with a Glass Fibre yarn as leader material and multiple strands of Inconel wire as reinforcement.

Application

This product is ideally suited for valve and other stationary equipment applications. Despite the fact that the multiple strands of Inconel wire is embedded in the Graphite, the possibility of shaft contact when used in high speed applications, reduces this product to stationary applications only. It has proven itself in the Petrochemical, Pulp and Paper and Power Generation industries. Especially useful in steam and Hydrocarbon valves, with the added advantage of reduced emissions and increased pressure capability.

Size and Weight

Style 2199 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	300 Stationary (Valves)
Shaft Speed	m/sec	1
pH	pH	0 - 14
Ignition Loss	%	<10 (300°C @ 3 hours)
Total Sulphur Content	ppm	<1000
Total Chloride Content	ppm	<50
Total Metal Content	ppm	<500
Total Fluorine Content	ppm	<20