



## Nexus Pump and Valve Packing

### DATA SHEET



### **Nexus Style 2160 Packing**

#### **Description**

Style 2160 packing is made of a tightly braided yarn of high purity Expanded Graphite. The benefit of Expanded Graphite packing is enhanced 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**

Style 2160 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**

This product is ideally suited for 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**

Style 2160 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 <sup>3</sup>	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