

Data Sheet

P045 High Purity Graphite for High Temperature Valves & Pumps

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|--------------------|----------|
| Data Sheet Type | Final |
| Material Reference | P045 |
| Polymer | Graphite |
| Date Issued | 02/06/26 |



Description

Manufactured from Pure Expanded Graphite containing minimum amounts of trace elements such as Sulphur & Chloride.

| Specifications | Values | Test Methods |
|---|----------------|--------------|
| Highest Recommended Working Temperature | 500 °C | None |
| Maximum Linear Speed | 2 m/s | None |
| Maximum Rotary Pressure | 25 bar | None |
| Maximum Rotary Speed | 25 m/s | None |
| Maximum Valve Pressure | 300 bar | None |
| Oxidising Environment Temp Range | -200 to 450 °C | None |
| PH Range | 0-14 PH Range | None |
| Steam Operating Temp Range | to 650 °C | None |

Purposes



Acid
Resistance



Chemical
Resistant



High Working
Temperature



Low Working
Temperature



Oil
Resistance



Petrol
Resistance



Steam
Resistant



Water Resistant

Important Notes about this Material Data Sheet

This datasheet has been carefully compiled to advise you, our customer, in the best possible way. The information, figures, test values, and data correspond to actual engineering standards and are the result of many years of tests and trials. As individual operating conditions influence the application of each product, the information supplied in this datasheet can only be seen as a rough guideline. In every case it is the sole responsibility of the customer to evaluate his individual requirements, in particular whether the specified properties of our products are sufficient for the intended use. This datasheet is subject to alteration without prior notice. All mentioned values contained herein are guiding values representing long-term experience averages. Please be aware that Test Results for individual Material Batches will only be provided if requested at the time of order and may be subject to additional charges and/or lead times. This Data Sheet supersedes all previous data sheets and any other data previously provided either Verbally, Electronic or Written, with reference to the above Material Grade.