DIE FORMED RINGS

Die pressing graphite seals ensures a strong density and sealability without the use of fillers or binders. These pure graphite seals are reliable up to temperatures of around 430°C / 806°F and are resistant to the majority of chemical media.

These can be provided with a chamfer to the inner or outer if required. Other optional extras include top and bottom wiper rings and metal end caps. With in-house machine tooling facilities, we have the ability to manufacture a tool to your specific requirements often on a next day or same day basis.

Die Formed Graphite Packing Rings which are produced from only high purity compressed flexible graphite ribbon and are designed to provide a seal between a moving spindle or shaft and the pressurised housing which it penetrates.

Die Formed Graphite Packing Rings are capable of providing a leak-free seal for high performance valve applications at high pressures and temperatures typically between -240°C and 430°C / -464°F and 806°F. For further stability under high pressure applications, metallic reinforcement or end caps can be added.

The nature of Die Formed Graphite Packing Rings ensures excellent chemical resistance and compatibility with virtually all media in the industry except only those with very strong oxidising agents.

We custom designs and machines tools ‘in-house’ and can press up to 24” diameter. The process of manufacture provides an end product that is volumetrically stable and has no binders or fillers added producing a seal with very low permeability and without porosity. These packing rings can be supplied in square section, chamfered, split, matched halves and in sets with braided wiper rings.

APPLICATIONS

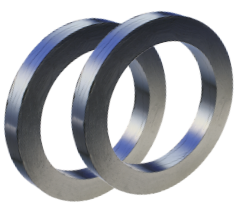
- Valves
- Pumps
- Compressors
- Oil Industry
- Chemical Industry
- Thermoelectric Stations
- Nuclear Power Stations

PRODUCT DATA

Dynamic
Static

	Pressure		Shaft Speed	Temperature	
	Bar	Psi	m/s	°C	°F
	20	290	5	-240 to 550	-464 to 1022
	350	1450		Intermittant Under Steam 650	1202

ρ 1.6g/cm²
pH 0 - 14

Note : should not reach the maximum pressure, temperature and speed simultaneously

Die Formed Graphite Packing Rings
can also be manufactured in other densities on request