

POWDER TO PRODUCT

QUALITY | RELIABILITY | PERFORMANCE



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KRISH CARBON



THE KRISH CARBON WAY

As a carbon manufacturer, Krish Carbon brings the versatility of carbon in applications across industries. Our state-of-the-art facility in Coimbatore, Tamil Nadu, spans 9000 square metres and features multiple green initiatives for efficient energy management.

We manufacture a wide range of carbon grades for customer-specific applications. From industries such as process and chemical industries, automotive, marine and more, our products are used in various fields, serving millions of people around the world.

From powder to product, as an end-to-end carbon company, Krish Carbon's backward integration is a deliberate customer-centric initiative. As a carbon manufacturer, Krish Carbon leaves no stone unturned in putting its customers a step ahead by manufacturing carbon grades for customer-specific applications.

With manufacturing facilities in India, we are well equipped with state-of-the-art infrastructure and an R&D centre for developing cutting-edge, next-generation products for our customers.

Krish Carbon is also deeply committed to reducing the carbon footprint while caring for and nurturing an eco-friendly sustainable business model.





The PTS (Press to Size) technology is a niche manufacturing technology in the Carbon industry.

The benefit of PTS is that it eliminates waste and allows for more cost-effective manufacturing with the ability to address prototyping. The results in high productivity compared to traditional machining methods.

The process involves pressing the raw material to the desired net shape through high molding pressure followed by annealing, resulting in high strength products that can be used in industries such as automotive and pumps where there are high volume requirements.

Our world-class products manufactured under stringent quality standards are set apart from the rest due to the below features:

- Self-lubricating | Dry run capability
- High wear | Corrosion resistance
- Resistance to thermal shock
- Dimensional stability | Thermal conductivity
- Low friction coefficient
- Excellent chemical resistance
- Low thermal expansion



Use of Carbon Graphite in Mechanical Seals:

Since mechanical seals must be able to endure a wide range of application conditions, there is a need for meticulous attention to detail and carbon graphite is the ideal solution for this application.

Carbon blocks and blanks best fit most seal requirements in this field and are machined from the resin and antimony impregnates blanks to fit the requirement at hand.



Carbon Seal Rings

Other Applications:

Carbon steam joints are available as single-acting and double-acting seals. The former has a concave surface on the seal ring to act as a non-return valve when the pressure reverses; the latter has two convex surfaces facing one another. In either case, the convex surfaces are spring-loaded against the sealing surface with an elastomer bellows, which ensures that the pressure of the working fluid is pushing the seal together rather than pulling it apart.

Steam joints are exposed to all known lubrication conditions, including wet, mixed and dry running.

The use of Carbon Graphite eliminates oil-based lubrication, an important advantage as the intermittent swivelling motion usually precludes the use of a hydrodynamic lubrication system.

Carbon Graphite - Resin Impregnated for medium pressure: 8 - 14 kg/cm² and temperature up to 300°C. Carbon Graphite - Metal Impregnated for high pressure / high temperature up to 350°C and pressure.



Carbon Steam Joints



Carbon Vanes

Use of Carbon Graphite in Vacuum Technology:

Kish Carbon Vanes offer high mechanical strength and can withstand very high peripheral speeds. The vanes have an excellent sliding surface, and the lubrication grooves ensure an even distribution of lubricant to the vane tips. They are resistant to wear and tear in both dry and wet operations and with the right type of lubricant, it ensures excellent performance over long periods for vacuum pumps and dry running compressors. KH 120Carbon grade is ideally suited for this application.



Carbon Rotors

Carbon Rotors

Kish Carbon Rotors are one of our most technologically advanced products that are pivotal in vacuum pump applications. Its ability to create a strong vacuum force makes it to be an important component in all kinds of vacuum pumps and vacuum generating machinery. They are also used in braking pads in advanced automobiles as vacuum tech pads. This component can be customised and manufactured according to our customers' niche needs.



Carbon Bearings

Use of Carbon Graphite as Bearings:

The use of Carbon Graphite eliminates oil-based lubrication, an important advantage as the intermittent yawing motion usually precludes the use of a hydrodynamic lubrication system.

Engineered for continuous and high-speed operation at optimum torque load, Irish Carbon Thrust Pads are available in two forms - resin-impregnated and metal impregnated. They are designed and validated to withstand the required thrust load to perfectly meet the varying load conditions of submersible motors.

Composed of resin or metal impregnated carbon graphite, our Radial Bearings provide unparalleled performance that enables a range of rotating applications to perform in the most extreme conditions due to low coefficient of friction in other types of process pumps.



Carbon Segmented Rings

Segmented Rings are used in open, recirculating and closed lubricating systems that feature tight solid rings with excellent O-ring sealing. They are used in contact-free internal and external grooved bearing applications.

Get top-edge Carbon Blank and Blocks for multifarious needs that can be customized by the client. We offer options of the same in unimpregnated, resin impregnated and antimony impregnated to suit different temperature needs as well.

Carbon Blanks & Blocks



GRADES AND PHYSICAL PROPERTIES

Grade	Impregnation	Density g/cm ³	Hardness Rockwell	Flexural Strength MPa	Compressive Strength MPa	Young's Modulus GPa	Thermal Expansion 10 ⁻⁶ /°C	Thermal Conductivity W/m ² /°C	Open Porosity %	Maximum Service Temperature Air (in Dry) °C	Maximum Service Temperature In Molten Media °C
KH24R +O	Resin	1.8	100	58	160	21	5	13	2.5	200	200
KH24A	Antimony	2.4	105	70	200	30	5	20	2.5	330	530
KH24AC +O	-	1.8	100	55	140	18	4.9	13	2.5	350	400
KH36R	-	1.7	105	45	140	21	3	11	12	330	1000
KH36RR +O	Resin	1.8	110	70	200	22	5	11	2	200	200
KH36RA	Antimony	2.3	120	90	340	28	4	15	2	350	550
KH36RAC +O	-	1.8	105	65	180	24	4.9	11	2.5	350	350
KH120	-	1.7	105	75	115	21	11	6	0	175	175



OPEN TO CUSTOMISATION

The use of high-quality, tailor-made carbon, combined with our ongoing advancements in manufacturing technology, has led to the development of high-tech materials for a wide range of applications. We are also equipped with a range of machinery required on these grades.

Our carbon products have self-lubricating properties that reduce friction and are of primary importance across an array of applications. We assure superior consistency and standards even between batches, in order for your end product to maintain its repute and quality.