

# Excel Sealing Solution

We offer a wide range of sealing products in Carbon, Rbsic, Ssic, Tungsten, Gland Packing, Ceramics, Flexible Graphite, Gaskets, PTFE Products, and Springs.

## Our Products

- ✓ Silicon Carbide
- ✓ Industrial Ceramics
- ✓ Precision Pump Spares
- ✓ PTFE Products
- ✓ Tungsten Carbide
- ✓ Silicon Stationary
- ✓ Stationary
- ✓ O Rings



## More Information



Call Us  
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[www.excelsealing.com](http://www.excelsealing.com)



# About Company

Excel Sealing Solution has prompted a work culture tunes to customer focus through good business practices and continuous improvement.

Excel Sealing Solution is a fast-growing Manufacturing and Supplying company in the field of planning, design, development, production & marketing of comprehensive range of Sealing Components & Spares for international & domestic markets. We are here to make an accurate job for market with a commitment of setting up increasingly still demand on performance and reliability.

Excel Sealing Solution has prompted a work culture tunes to customer focus through good business practices and continuous improvement. Quality is engineered not only in its product but it is the driving force behind whole system.

Excel Sealing Solution has a comprehensive, state-of-art manufacturing unit with impeccable inspection and testing facilities backed by highly skilled and technical core group for the assurance of quality and service.

## PROFESSIONAL ADVICE

We practice Lean manufacturing techniques to meet quality, delivery and technical requirements while remaining competitive.

## GLOBAL SOURCING

We are having highly experienced sourcing team which are structured at global level to be an extensive stockiest and leading Industrial supplier of quality Sealing Products.

## ASSEMBLING

Excel Sealing Solution in-house assembly team, coupled with robust manufacturing capabilities provides flexibility in today's fast-changing and reactive market.

## ENGINEERING

Our team of highly dedicated and skilled professionals delivers engineered solutions of the highest quality through our commitment to absolute precision.

## MANUFACTURING

We practice Lean manufacturing techniques to meet quality, delivery and technical requirements while remaining competitive.

## LOGISTICS ARRANGEMENTS

We practice Lean manufacturing techniques to meet quality, delivery and technical requirements while remaining competitive.



# Silicon Carbide (Ssic & Rbsic)

The silicon carbide seal faces, bearings, bushings have the advantages of excellent thermal conductivity, resistant corrosion, high mechanical strength, self-lubricity, low thermal expansion. Our range of silicon carbide seal & bearing materials will be found in many challenging industrial applications operating in extreme environments. Silicon carbide components are widely used in products such as gas seals, mechanical seals, propulsion shaft and slurry seals, slide bearings, radial and thrust bearings where the following properties make it an ideal choice for use in a broad range of industrial processes and engineered design solutions.



Sintered Silicon Carbide (SSiC) is produced using very fine silicon carbide powder containing sintering additives. It is processed using forming methods typical for other ceramics and sintered at 2,200°C in an inert gas atmosphere.

Sintered Silicon Carbide offers a high-performance seal face material that has proven successful in such diverse pumping applications as chemical processing, refining, mining and pulp and paper processing. The material provides superior corrosion and abrasion resistance; shock resistance; and low sliding friction against a wide range of mating materials

Commonly Silicon Carbide are available in Alfa Sintered (SSiC) Grade and Reaction bonded (Rbsic) Grade as per following specification.

## Product Specification

	Unit	Rbsic	Ssic
Purity	%	>90	>98
Density	g/cm <sup>2</sup>	>2.98	>3.10
Haedness Vickers 1Kg	Kg/mm <sup>2</sup>	2200	2400
Moduls Of Elasticity	GPa	390	420
Fracture Toughness	MPa m <sup>1/2</sup>	4.3	4.5
Fracture Strength (MOR)	MPa	420	450
Compressive Strength	MPa	2500	3200
Thermal Expansion (CTE)	10 <sup>-3</sup> /K	4.3	4.4
Thermal Conductivity	W/(m-k)	120	140

# Tungsten Carbide Faces

It enabled many Indian Industries to go in for Tungsten Carbide Wear parts where previously Hardened Steel and Steel alloys were being used. Tungsten Carbide Seal Rings are used as Mechanical Seal faces in pumps, Compressors and Agitators. These are used in Oil Refineries, Petrochemical plants, Fertilizer Plants, and Drugs/Pharmaceutical Industries. Mechanical seal rings are developed to withstand high temperature, high pressure & highly corrosive chemical attack. Excel Sealing Solution manufactures Rings in various shapes like Plain Ring, DA type, T-shape, L-shape and in shapes as per customers requirement. Tungsten Carbide Rings are generally made with Cobalt or Nickle as binder material. We supplied the following specification of Tungsten carbide material,



## Product Specification

Nickel (Ni)	(%)	6
Tungsten Carbide (WC)	(%)	94
Density	(g/cm <sup>3</sup> )	14.0~14.9
Hardness	HRA	≥88.5
Compressive Strength	N/mm <sup>2</sup>	5600
Transverse Rupture Strength	N/mm <sup>2</sup>	2600
Thermal Conductivity	W/m.°K	110
Co-Efficient of Thermal Expansion	(10 <sup>-6</sup> /°K)	6
Max. Use Temperature	°C	1500

# Industrial Ceramics

Excel Sealing Solution Supplies high Alumina Ceramics seal faces from 95% to 99% Alumina as per below datasheets. This Ceramic ware parts are specially developed for chemical plant seal face applications and other similar applications in which corrosive attack is likely to be particularly severe. This material has been subjected to extensive and rigorous laboratory testing to determine the effects of various reagents/chemicals on surface finish. The stability to acid of components made from this material has been determined to be within 0-10mg mg/cm<sup>2</sup>.



## Product Specification

	Unit	Al <sub>2</sub> O <sub>3</sub> – 99%	Al <sub>2</sub> O <sub>3</sub> – 97%
Purity	%	>99.5	>97.0
Density	g/cm <sup>2</sup>	>3.89	>3.71
Haedness Vickers 1Kg	Kg/mm <sup>2</sup>	2000	1900
Moduls Of Elastcity	GPa	330	280
Fracture Toughness	MPa m <sup>1/2</sup>	3.8	3.5
Fracture Strength (MOR)	MPa	330	320
Compressive Strength	MPa	2600	2300
Thermal Expansion (CTE)	10 <sup>-6</sup> /K	8.2	8.0
Thermal Conductivity	W/(m-k)	30	26



# Carbon and Graphite

Excel Sealing Solution Supplies custom made Carbon Seals, Carbon Face parts, Carbon Shaft Sleeves and Carbon Bearings in (Resin Impregnated and Metallic Impregnated Grade) by using Schunk Grades (West Germany) with prompt delivery. We also supply Mechanical Carbon Blanks (Resin Impregnated and Metallic Impregnated Grade).

We make them available in various designs, shapes, and sizes. Our graphite sealing rings range has close dimensional tolerance and is apt for usage as a part of mechanical seals in general utility pumps, water pumps and chemical pumps. The carbon sealing rings we supply are used as the wear face of various mechanical seals for the sealing of fluids in all types of industries. We provide different types of Carbon Vanes for various types of Vacuum Pumps.



# PTFE (TEFLON)

PTFE compression packing, are made of Polytetrafluoroethylene, is known for its exceptionally high resistance to chemicals and low friction. PTFE Gland packing's are made of specially selected polytetrafluoroethylene (PTFE) filaments or exfoliated graphite acrylic fiber.

PTFE is known for outstanding resistance to a wide range of chemicals, low coefficient of friction, very little water absorption, and wide temperature tolerance including cryogenic applications. Therefore, PTFE compression packings are great for demanding applications where strong solvents, corrosive chemicals and oxidizing media require to be sealed. We supply the PTFE material in following form,



# O Rings

Silicon carbide (SiC) products are a category of materials and components that are made from silicon carbide, a compound of silicon and carbon. Silicon carbide is a hard and durable material with excellent thermal, mechanical, and electrical properties. It is used across in many challenging industrial applications. Some common silicon carbide products include. Their robust properties make them ideal for use as mechanical components and wear parts that are specified in applications such as but not limited to:



These are used in Oil Refineries, Petrochemical plants, Fertilizer Plants, and Drugs/Pharmaceutical Industries. Mechanical seal rings are developed to withstand high temperature, high pressure & highly corrosive chemical attack. Excel Sealing Solution manufactures Rings in various shapes like Flat Ring, DA type, T-shape, L-shape and in shapes as per customers requirement.

## Stationery

This are the most preferred sealing component because of the low cost, ease to make & simple mounting requirements. It is designed in such a way that it can fit in a groove and be compressed to give better sealing qualities. They are manufactured through a process known as molding.



O-Rings are available in various sizes the most common of them being AS568, BS & JIS2401 to name a few. Its size constitutes of two main dimensions: Inner Diameter (ID) & Cross Section (CS).





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