



GASKETS AND SEALANTS



INVICTA - Leading Quality - Leading Innovation

INVICTA Gaskets and Sealants are supplied to leading development partners, aftermarket wholesalers and OEM manufacturers in the international automotive industry. Since 1979, the company has been a byword for engineering excellence in gasket technology. Invicta develops and produces specialty customized gaskets, exhaust gaskets, intake and exhaust manifold gaskets, sintered gaskets, wire-mesh gaskets, spiral wound gaskets, sump-plugs, sealing paste, heat-shield washers, metal o-rings, and rubber O-rings. In addition vehicle specific gaskets are available for almost all passenger and commercial vehicle manufacturers from around the globe. In addition, the company's other product categories include clamps, air-tank accessories, rubber parts, fasteners, and precision manufactured components. Drawing on this experience, INVICTA is well placed to tackle the challenges of the future. The growing success of the INVICTA in the aftermarket is founded on the company's expertise in the OEM sector. By using INVICTA products in OEM quality, dealers, workshops and their customers around the globe can enjoy the benefits of superior performance – for an improved driving experience and, ultimately, eco-friendly operation.

99% of the company's gasket and sealant products are produced in-house in India at seven state of the art factories utilising the latest advanced technology.

INVICTA gaskets are known to seal accurately and perfectly. This is a result of decades of experience in perfecting our in-house design capabilities and testing infrastructure. Each part is rigorously tested for even the smallest defects so that our customers can enjoy the benefits of superior performance.

Exclusive Services and Benefits of INVICTA customers :

- Easy-to-use Digital and Print catalogs**
- Quick Delivery**
- Access to large stock of standard parts**
- High Quality at Reasonable Prices**
- 24-hour communication by phone or email**
- Technical Support and Design Assistance**
- Personalised Packaging and Laser-Marking**
- Topic-Specific catalogs with OE Number and Vehicle Brand**
- High Professional Standards**
- Technical Competence and Modern Manufacturing Techniques**

Sintered Rings

Safe and Reliable. Customizable as per customer specifications. OE-specific sintered rings are also available. Over 500 OE-specific sintered exhaust rings have been developed to-date.

Available in different raw material and density compositions to suit diverse working conditions. Detailed inspection report sold with each part. Over 1 million sintered rings are sold by INVICTA each year.

Technical Features : High Hardness to ensure long life, smooth surface, low roughness. Custom made sintered rings can be produced for industrial applications such as hydraulic motors, valves, pumps, and machine tools.



Wire-Mesh Gaskets

Over 500 OE-specific exhaust wire-mesh gaskets have been developed to-date.

All INVICTA wire-mesh gaskets are produced using top quality raw material.

Our wire-Mesh gaskets for exhaust system applications have precisely controlled chemical compositions to withstand high temperatures of as much as 600 degrees, and the presence of corrosive substances such as urea.

INVICTA wire-mesh gaskets consist of high levels of copper to provide additional strength and tenacity, and high levels of nickel to prevent early corrosion.

Excellent Shielding Performance. High Degree of Elasticity.

Seals against moisture. EMI Protection.

We can prototype new designs at incredible speed, and we can provide custom solutions to give you a competitive edge.

Detailed chemical inspection report is provided with each shipment.



Spiral Wound Gaskets

Wound in V-section metal strip and a softer filler material. Support rings, inside and/or outside the spiral, improve the gasket's fitting and versatility. In operation, flange faces are presented with a spiral of alternate metal/filler layers. This sealing arrangement is highly successful on flanges where temperature, pressure, vibration or flow rates are beyond the capability of conventional jointing materials.



- Gaskets are made in a wide variety of sizes and shapes
- Combinations of metal strip and filler are selected to suit the specific fluid media and operating conditions
- Quick to install and remove
- Operating temperatures from cryogenic up to 1000°C
- System pressures from high vacuum to over 350 bar
- Support rings - inside and/or outside the spiral - make gaskets suitable for high pipeline pressures on flat or raised flange faces

Exhaust Gaskets



Exhaust gaskets require metal beads where the gas passes through at very high temperatures and low pressure. These metal beads are always reinforced with metal sheets to resist the component movement that arises from large fluctuations in temperature. Modern exhaust gaskets are made of uncoated, beaded multilayer steel (MLS). The number of sheet metal layers depends on the distortion of the exhaust and cylinder head components. Leaks in the exhaust gaskets produce bad exhaust values, a loss of power and increased fuel consumption. Detailed catalogue with OE numbers for passenger automobiles and commercial vehicles is available.

Cylinder Head Gaskets and Engine Gasket Kits

Invicta offers a comprehensive range of Cylinder Head Gaskets tailored to the specified requirements of various high performance, fuel saving, and low emission engines.

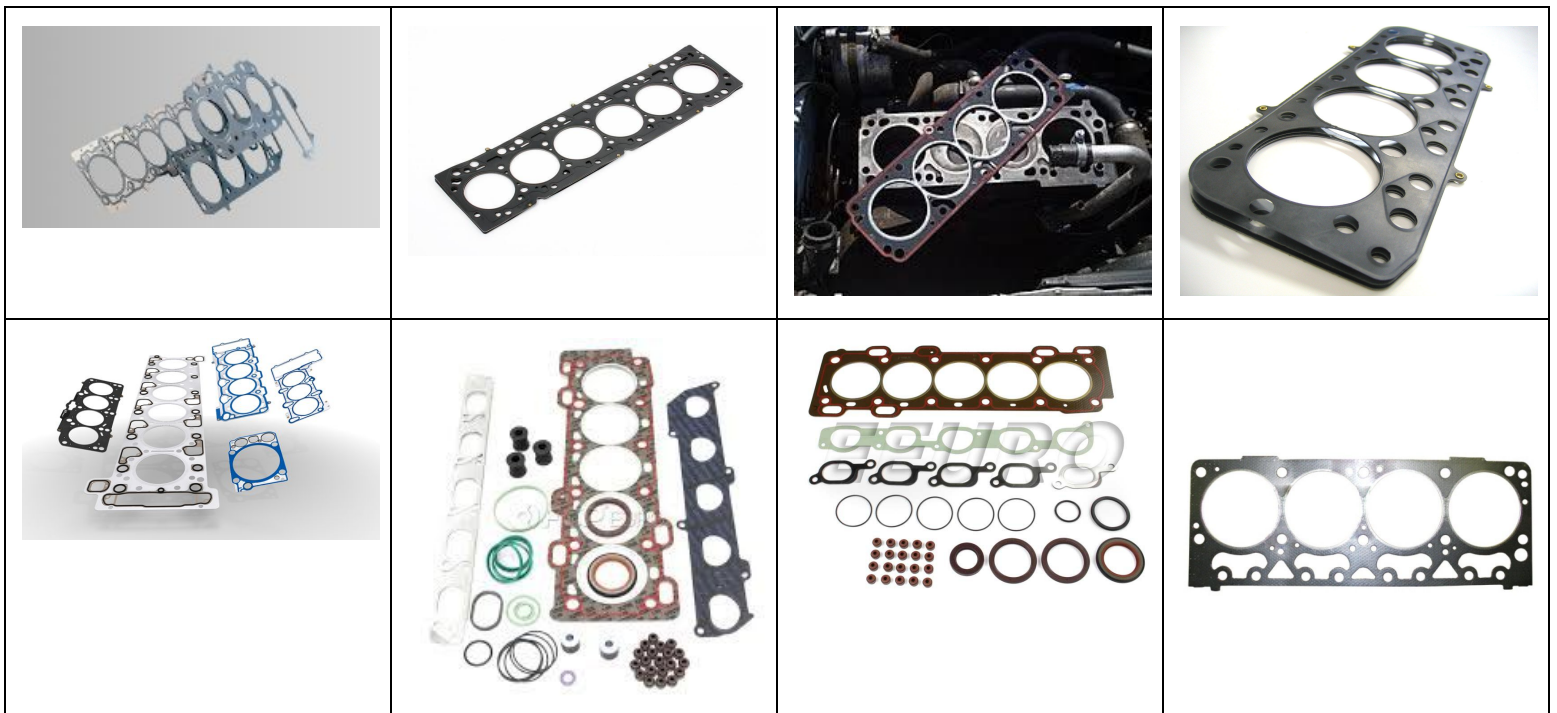
Increasing torque and performance with decreasing consumption and emissions. The development goals in engine construction determine the requirements of modern gasket systems. As a leader in technology, an original equipment manufacturer transfers all of his expertise, experience and quality into the replacement parts business. With a broad product palette, Invicta supplies cylinder head gaskets for all conventional passenger car and commercial vehicle engines.

Invicta can supply Cylinder Head gaskets of all types - metal layer, metal-elastomer and metal-soft material - individually matched to the requirements of each particular engine.

Cylinder-head gaskets (CHG) have a crucial role to play in the advancement of engine technology, particularly with respect to high-performance diesel engines and petrol engines with direct injection. Development work at Invicta always focuses on the entire engine system. Around 1,000,000 cylinder-head gaskets are produced each year. Whatever the engine concept, we can provide the right sealing system accompanied by an engineering service to speed up the development process from the original idea to production standard.

Requirements for cylinder-head gaskets:

- Gas-tight, coolant-tight, oil-tight
- Ductile, no re-torque, low distortion
- Resistant to chemical influences (combustion gas, lubricant/coolant)
- Engine designs with optimised weight help to cut fuel consumption and emissions and result in higher diesel engine ignition pressures
- Reduction in component stiffness through the use of light metals and thinner casting walls



Sump Plugs

The sump plug is a bolt at the bottom of the sump pan, enabling oil to be drained from the engine when you're doing an oil change. Many people like to replace the sump plug whilst doing an oil change - it's relatively inexpensive and leaves you with peace of mind that the part is new and not likely to split.



Oil Seals are used to exclude water, Dirt, Dust or any other substances from mechanical equipment whilst maintaining lubrication. Used in applications ranging from gearboxes, hydraulic cylinders and washing machines. Oil Seals are available in more than 50 different styles in sizes from ¼" to over 90", solid or split, metal-cased, or all-rubber. As an esteemed name in the relevant industry, we are offering a quality assured array of O Ring

Seal. Extensively used for fixing leakage problems in engines, this ring seal is offered in several sizes and dimensions as per the variegated needs of the clients. Incorporated in the year 1993, we "INVICTA INDIA", are the trustworthy Manufacturer, Exporter and Supplier of an enhanced quality O-SEALS .Our offered products are manufactured with the help of finest grade elastomeric material derived from petroleum by-products. These products are widely demanded in automobile, printing and textile industries for tires, doors, hoses, belts, matting, flooring and damping sound.

Further, our offered products are highly appreciated by our clients for their enormous features like chemical resistance, excellent thermal stability, mechanical performance, flexibility, finely finished, unmatched quality and durability. We have a dexterous team of professional who assist us in coming across the exact needs of our clients and design these products with perfection in predetermined time-frame.



Valve Stem Seals

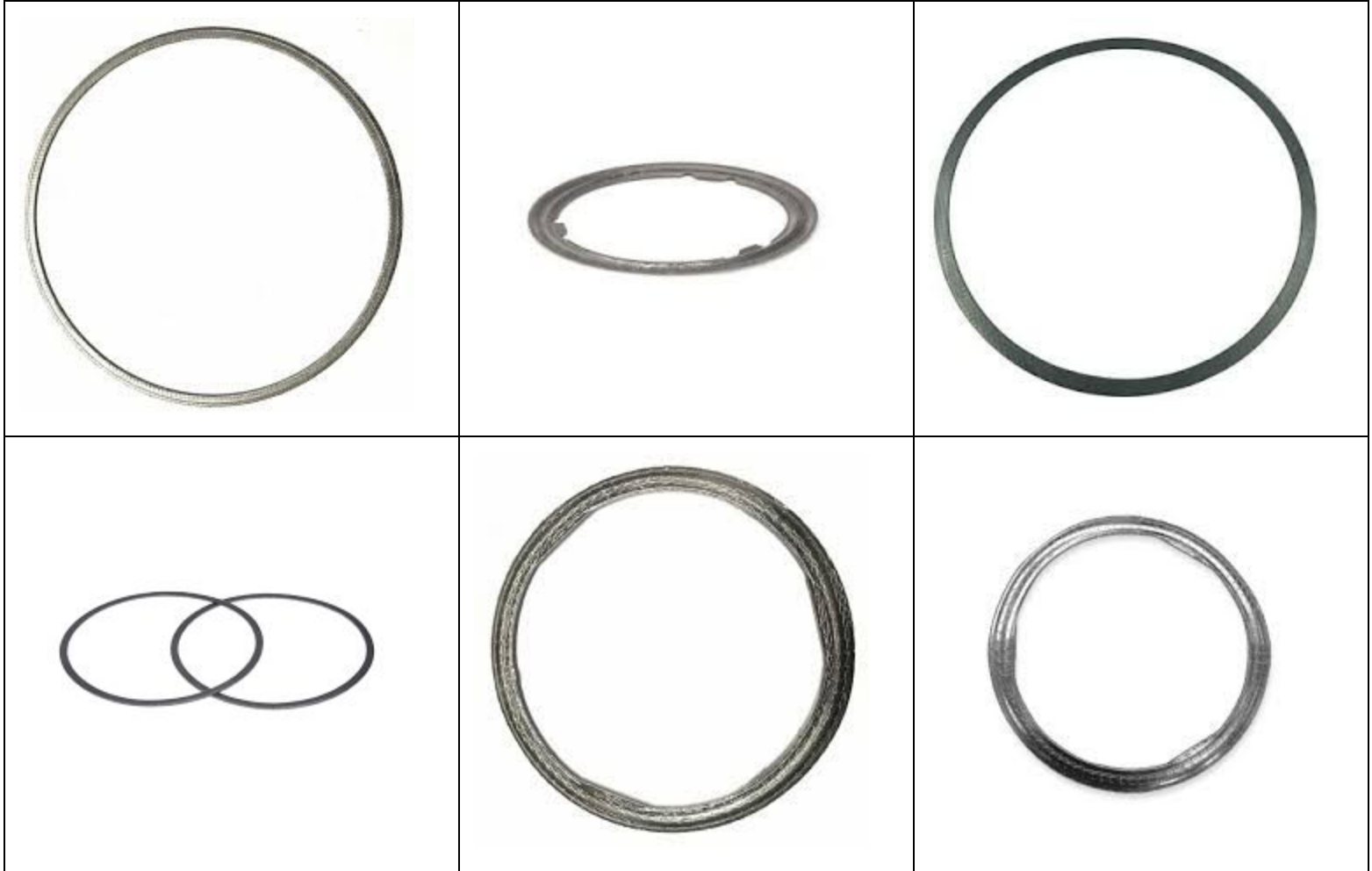
Valve stem seals are small relative to other gaskets and seals in an engine, but play an important role in lubrication. What makes valve stem seals different than almost every other type of seal? The answer is simple – they are designed to leak. Seals designed to leak may sound counter-intuitive, but the amount and way in which they leak is precisely controlled to achieve a specific goal. Valve stem seals provide a controlled leak of oil to allow the valve stem to be lubricated as it slides in the valve guide. The amount of oil that passes by the valve stem seal must be precisely controlled, as too little oil causes stem and guide wear. Too much oil causes carbon buildup leading to valve seat damage, decrease in volumetric efficiency, increased emissions and excessive oil consumption. There are two basic valve stem seal designs:

1. Deflector seals – also called umbrella seals, deflect oil away from the valve stem. They are secured to the valve stem and move with the valve to shield the valve guide from excess oil. Umbrella type seals were commonly used prior to the development of positive type seals.
2. Positive seals – attach to the valve guide boss and function as squeegees, wiping and metering oil on the stem as they pass through the seals.



Diesel Particulate Filters (DPF) Gaskets

We offer a wide range of aftermarket gaskets for Diesel Particulate Filters (DPFs) and Diesel Oxidation Catalysts (DOCs). Our gaskets are manufactured to meet or exceed OEM specifications guaranteeing a perfect fit and OEM performance.



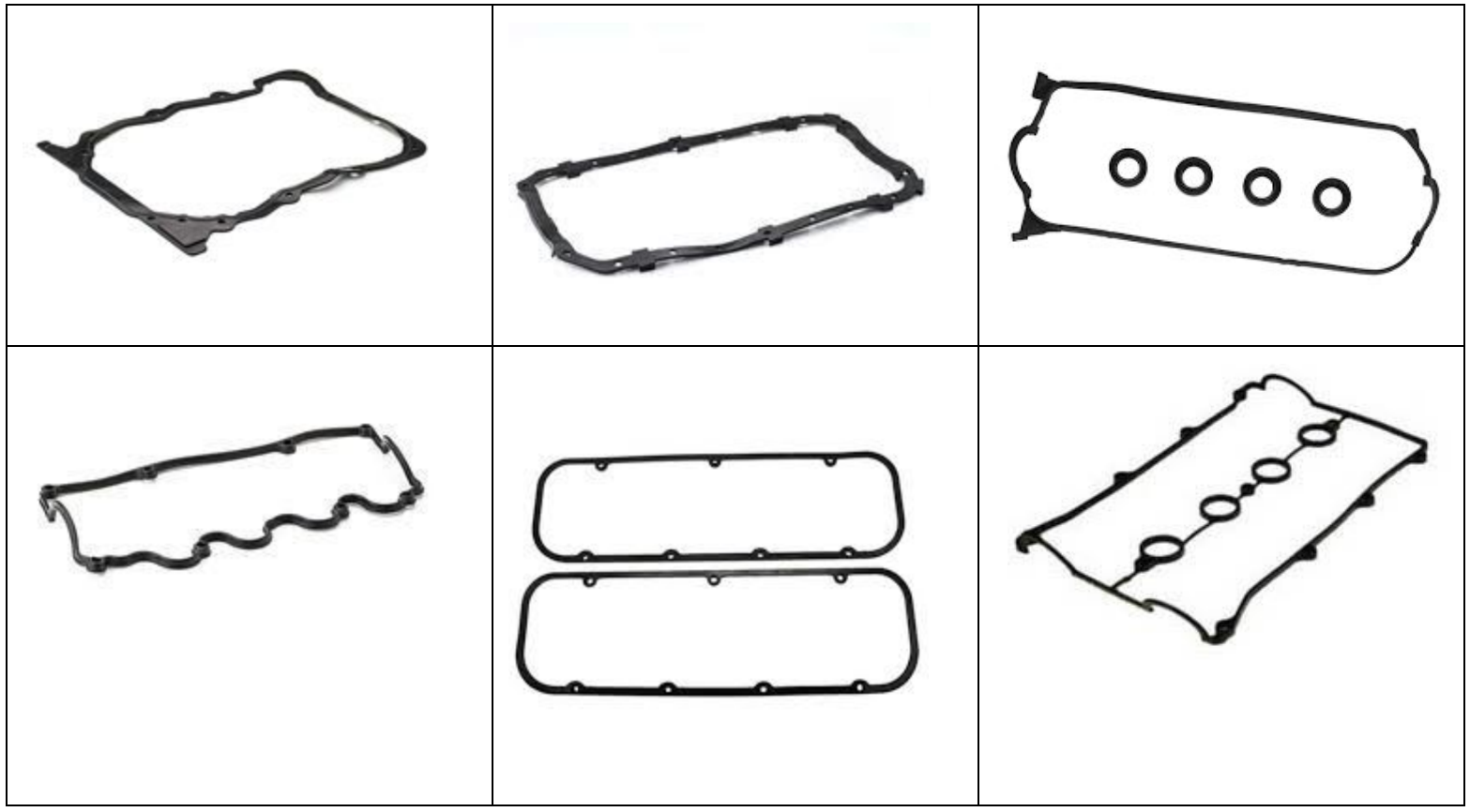
Valve Rocker Cover and Oil Pan Gaskets

A valve cover gasket in a vehicle facilitates sealing of joint between the rocker cover and the rest of the engine. This is a crucial component of any vehicle because failure of this gasket usually leads to oil/gas leakage from the engine which can be potentially dangerous. A valve cover gasket leak is very common in cars that cover more than 30,000 miles. This usually leads to leak of valve cover gasket because oil from the engine leaks into them. Another cause is less frequent change of engine oil.

It is crucial to ensure installation of only high quality valve cover gasket in a vehicle during repair tasks. Inferior valve cover gaskets can create unpleasant leaks. Buying gaskets from only a reputed manufacturer will help in long lasting repairs. This also helps in avoiding oily and messy repair jobs. Also the valve covers remain clean throughout the process.

The key is to invest in OEM or high quality gaskets for engines designed specifically for the vehicle. Superior material quality also plays a major role in ensuring complete protection of vehicle engine in all respects.

The valve cover gaskets these days are available with cork-rubber with the added benefit of stoppers right at the bolt holes. This helps in minimizing loss of torque. Cork rubber valve cover gaskets with specialized heat resistant sections are ideal for applications where hot components are in the vicinity of valve covers.



Turbocharger Gasket Kits

With over 600 references covering more than 3400 applications our complete product range of OE quality gasket kits are available from stock and are ready for delivery. Gasket kits available for passenger vehicles, commercial vans and heavy duty trucks; Development of new kits upon request in 30-45 days; All kits include: stainless steel gaskets (turbine), fibre or metal-rubber gaskets (oil) and copper washers, if necessary.



Intake and Exhaust Manifold Gaskets

Invicta exhaust manifold gaskets use a perforated core made of 400 Series stainless steel to resist rust and corrosion. They also feature high-temperature fiber facing material on both sides of the core to prevent exhaust burnout, and special anti-stick coating to provide improved micro-sealing.

Special marine exhaust manifold cooling sets are also available. These sets contain all the necessary gaskets to rebuild the water-cooled exhaust manifold, exhaust elbow, and exhaust riser on a marine engine.



Heat Shield Gaskets

Heat Shield Gaskets provide outstanding fire resistance. It's ideal for thermal oxidizing environments and provides a good choice for plant steam drums, hydrocarbon cat crackers, hydrogen units and exhaust manifolds.





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