

# SPIRAL WOUND GASKETS

(AS PER ASME B16.20)



## 1. Introduction

Spiral wound gaskets are high-performance sealing solutions widely used in industries such as oil and gas, petrochemical, power generation, and pharmaceutical manufacturing. Known for their ability to withstand extreme pressures and temperatures, these gaskets ensure reliable sealing even under challenging conditions. At Unifit Metalloys Inc, we pride ourselves on offering spiral wound gaskets designed with precision, manufactured to the highest standards, and tailored to meet the unique requirements of our clients.

## 2. Types of Spiral Wound Gaskets

Our catalog includes a comprehensive range of spiral wound gaskets to suit various industrial applications.

- **Style CGI:** Equipped with both inner and outer rings, providing optimal sealing and structural support for high-pressure systems.
- **Style CG:** Designed with an outer ring for flange alignment and added protection against blowout.
- **Style R:** A basic gasket without inner or outer rings, suitable for tongue-and-groove or male-female flanges.
- **Style RIR:** Features an inner ring for enhanced stability and reduced gasket erosion.

We also specialize in **custom-engineered gaskets**, crafted according to client drawings and specifications.

## 3. Materials of Construction

We provide gaskets made from a wide range of premium materials to ensure compatibility with different operating environments.

- **Metallic Windings:** Options include Stainless Steel (304, 316, 321, 347), Nickel Alloys (Inconel, Monel, Hastelloy), Titanium, and Duplex/Super Duplex Steel.
- **Filler Materials:** Choose from Graphite (ideal for high-temperature applications), PTFE (excellent chemical resistance), or Ceramic (for extreme temperature resistance).
- **Inner and Outer Rings:** Available in Carbon Steel, Stainless Steel, and Nickel Alloys for added durability and support.

## 4. Standards and Certifications

Unifit Metalloys Inc ensures all spiral wound gaskets meet global standards, including **ASTM, ASME B16.20, API 601, EN 1514-2**, and other PN standards. Each product undergoes rigorous quality checks to comply with ISO 9001 standards, ensuring reliability, safety, and performance in critical applications.

## 5. Applications

Spiral wound gaskets are ideal for high-pressure and high-temperature environments. They are commonly used in pipeline systems, heat exchangers, boilers, and pressure vessels, providing exceptional sealing performance. Their ability to handle thermal cycling and fluctuating pressures makes them indispensable in industries requiring robust and durable solutions.

## 6. Dimensions and Sizing

Our spiral wound gaskets are available in sizes ranging from **½" to 60"**, with thicknesses of **3.2mm, 4.5mm, and 6.5mm** as standard. Custom dimensions can be manufactured to meet specific requirements, ensuring precise fit and compatibility with varied flange designs.

## 7. Technical Specifications

Engineered for performance, our spiral wound gaskets operate in temperatures ranging from **-200°C to +870°C**, depending on material selection. They can withstand pressures up to **400 bar**, making them suitable for extreme operating conditions. A comprehensive chemical compatibility chart helps clients select the right materials for their specific applications.

## 8. Advantages

Spiral wound gaskets offer numerous benefits, including excellent sealing capability under varying pressures and temperatures, long operational life, and reduced maintenance costs. Their adaptability and robust construction make them suitable for a broad spectrum of industrial applications.

## 9. Customization Options

Unifit Metalloys Inc excels in providing customized solutions. Whether you require non-standard sizes, special material coatings, or gaskets engineered for unique operating conditions, we can deliver products tailored to your specifications. Additionally, we provide material certifications and traceability for complete assurance.

## 10. Quality Assurance

Our manufacturing process is backed by rigorous quality assurance protocols. Each gasket undergoes extensive testing, including hydrostatic, dimensional, and material testing, ensuring optimal performance and reliability. Certificates, including Material Test Certificates (MTC) and Pressure Testing Reports, are provided with each order.

## 11. Packaging and Delivery

Our gaskets are securely packaged in wooden crates or customized packaging to prevent damage during transportation. With a robust logistics network, we ensure timely delivery to clients worldwide, meeting project deadlines and requirements efficiently.

We offer wide range of Spiral Wound Gaskets that in compliance with ASTM, ANSI, API, NORSOK standards at best Market prices in India. To know more about the latest price of Spiral Wound Gasket please feel free to contact us on [chirag@unifitmetalloys.com](mailto:chirag@unifitmetalloys.com) or call us on +91 8828163106