

# Spiral-Wound Metal Gasket

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10 catalogued sizes dimensioned to GB/T 4622 / ASME B16.20. Pick any row and the technical drawing redraws to it.

Spiral-Wound Metal Gasket to GB/T 4622 / ASME B16.20 are catalogued in id 22-169 mm, with od 42-205 mm. 10 sizes are held in the table below, and the technical drawing redraws to whichever row you select.

Standard

GB/T 4622 / ASME B16.20

ID

22-169 mm

OD

42-205 mm

Catalogued sizes

10

Dimensions are nominal values from the governing standard. Confirm the tolerance class for your application before ordering.



## Technical Drawing

Customize the parameters below — every spec field is editable, and the drawing redraws to match the values you choose. Changing the size will snap the other fields to that size's standard values; you can then override any individual value.

Sends the selected values to the quote form below.

## Request a Quotation for Spiral-Wound Metal Gasket

The form below follows the current technical drawing configuration. Change the drawing values above and the request details update automatically.

## Dimensions & Specifications (GB/T 4622 / ASME B16.20)

Every row below is a starting point for the customizer above — pick any size and the drawing will redraw to that row.

| Nominal pipe size | Inner diameter d1 (mm) | Outer diameter d2 (mm) | Thickness t (mm) | Winding material          | Reference standard      |
|-------------------|------------------------|------------------------|------------------|---------------------------|-------------------------|
| DN15              | 22                     | 42                     | 4.5              | 304SS + flexible graphite | GB/T 4622 / ASME B16.20 |
| DN20              | 27                     | 49                     | 4.5              | 304SS + flexible graphite | GB/T 4622 / ASME B16.20 |
| DN25              | 34                     | 59                     | 4.5              | 304SS + flexible graphite | GB/T 4622 / ASME B16.20 |
| DN32              | 43                     | 69                     | 4.5              | 304SS + flexible graphite | GB/T 4622 / ASME B16.20 |
| DN40              | 49                     | 75                     | 4.5              | 304SS + flexible graphite | GB/T 4622 / ASME B16.20 |
| DN50              | 61                     | 87                     | 4.5              | 304SS + flexible graphite | GB/T 4622 / ASME B16.20 |
| DN65              | 77                     | 109                    | 4.5              | 304SS + flexible graphite | GB/T 4622 / ASME B16.20 |
| DN80              | 89                     | 121                    | 4.5              | 304SS + flexible graphite | GB/T 4622 / ASME B16.20 |
| DN100             | 115                    | 149                    | 4.5              | 304SS + flexible graphite | GB/T 4622 / ASME B16.20 |
| DN150             | 169                    | 205                    | 4.5              | 304SS + flexible graphite | GB/T 4622 / ASME B16.20 |

Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 (Series 090) are washers manufactured to GB/T 4622 / ASME B16.20. This page lists the full dimensional range with the key specifications engineers need to select and specify them.

## What Are Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 (Series 090)?

Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 (Series 090) are washers defined by GB/T 4622 / ASME B16.20. They are selected by size designation and the dimensional characteristics shown below, and are available in a range of materials and finishes to suit the application and environment.

## CAD Source Reference

This page is generated from an original native CAD part model (SolidWorks .SLDPRT) of the spiral-wound metal gasket — gb/t 4622 / asme b16.20 (series 090) family maintained by our engineering team, covering 3 recorded size configurations. The technical

drawing shown above is rebuilt parametrically from the dimensional table, so it always reflects the exact size and configuration you select. Native CAD files (STEP / SLDPRT) can be supplied with your quotation on request.

## Materials & Finishes

Common materials include carbon steel (typically zinc plated or hot-dip galvanized), hardened or case-hardened steel where wear matters, and stainless steel A2 (304) or A4 (316) for corrosion resistance. Specify the material, hardness where relevant, and the surface finish appropriate to your application and environment.

## Typical Applications

Load distribution, surface protection and anti-loosening under bolt and nut heads in virtually all bolted joints. [Read the full application guide for Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 \(Series 090\) →](#)

## Pricing

Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 (Series 090) are supplied to order. Pricing starts from approximately US\$0.010 per piece for standard sizes in carbon steel; final pricing depends on size, material, finish and order quantity (MOQ applies). Submit your exact configuration with the quote form above.

Inside the plant

## Manufactured in our own plant

This part is cold-formed, threaded, heat-treated and finished in-house. The stages below are where its class and finish are actually decided.

1.



01

## Cold heading

Wire rod is drawn to size and cold-formed into blanks. Forming rather than cutting keeps the grain flow continuous around the head, which is where a bolt is most likely to fail.

Head dimensions and under-head radius checked at set-up and per shift.



2.

02

## Thread rolling

Threads are rolled between hardened dies rather than cut. Rolled threads are stronger in fatigue than cut threads and hold pitch and flank angle far more consistently across a batch.

Go / no-go ring gauges to ISO 965 tolerance class 6g.

3.



03

### Heat treatment

Quench-and-temper brings carbon and alloy steel to the property class ordered — 8.8, 10.9 or 12.9 — with the furnace charge tracked so a finished lot can be traced back to it.

Core hardness and tensile tested per lot to ISO 898-1.

4.



04

### Surface treatment

Zinc, zinc-nickel, hot-dip galvanizing, black oxide, phosphate and Dacromet, selected against the service environment rather than against the price list.

Coating thickness and neutral salt spray hours to ISO 9227.

## Video: Spiral-Wound Metal Gasket



► Watch video: <https://www.youtube.com/watch?v=9Gr0evppdZE>

### Spiral Wound Gaskets

Third-party video, selected automatically for this topic. It is not produced by Engineering Hardware and is not a specification source — use the tables on this page for dimensional data.

## Frequently Asked Questions

Which standard governs Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 (Series 090)?

Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 (Series 090) are manufactured to GB/T 4622 / ASME B16.20. The dimensional values on this page follow that standard.

What sizes are available for Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 (Series 090)?

The table on this page lists 10 sizes for Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 (Series 090), ranging from DN15 to DN150. Sizes outside the table can be quoted on request.

In which materials are Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 (Series 090) supplied?

Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 (Series 090) are supplied in carbon steel (zinc plated / HDG) and stainless A2 / A4, with finishes including zinc plating, hot-dip galvanizing and black oxide. Choose material and finish to suit the load and the service environment for Spiral-Wound Metal Gasket — GB/T 4622 / ASME B16.20 (Series 090).

How do I request a quotation?

Use the parametric drawing on this page to set the exact configuration (size, material, finish) and click "Request this configuration" — a specialist from Engineering Hardware will respond within one business day.

More Washers

[← Previous](#)[Tab Lock Washer for Round Nut — GB/T 858 \(Series 089\)](#)[GB/T 858](#)[Next →](#)[Plain Washer — GB/T 858 \(Series 071\)](#)[GB/T 858](#)