

Technical Requirements for Ceramic Flanges



Overview

All flanged fittings meet or exceed ASME B16. 5 requirements for pressure-temperature ratings, materials, dimensions, tolerances, marking, and testing. Ceramic flange is a mechanical connection for pipe connection, usually composed of two disc-shaped or square flanges, a certain number of bolts and gaskets. There are a certain number of flange holes on the ceramic flange, and the two ceramic flanges are tightly pressed together by bolts, so that. Several physical quantities, such as mean free path, monolayer time, flow density of the particles impinging on the walls, leak rate and the degassing rate are of significance in the characterization of this pressure range. Thanks to the high hardness and strength of alumina ceramics, these flanges can maintain their shape and performance even. Flanges are the parts connected between shafts and are used for connecting pipe end.



Article Content

Hot

Alumina ceramic flange tube – Haikun New Material Co.,

Alumina ceramic flange tubes are essential components in modern industrial applications, particularly where durability, reliability, and performance are critical.

Nov 17, 2025 Hot

Ceramic Flange Plate

Ceramic Flange Plate Mingrui ceramics specializes in the production of ceramic insulation flange, ceramic flange, ceramic insulation flange, ceramic disc;The

Sep 14, 2025 Hot

Ceramic Swivel Flange 5D Bend 90°

The Metso ceramic swivel flange 5D bend for hydraulic applications has a wear tube with ceramic lining. It is used for slurry handling in heavy wear applications where extra high wear resistance is required.

Feb 13, 2026 Hot

FLANGE FACINGS

Other flange facings covered by these standards include the large and small tongue-and-groove facings, and the ring joint facing specifically for ring joint type metal gaskets.

Sep 01, 2025 Hot

ANSI A108/A118/A136.1:2024 – Installation of Ceramic Tile

Which Ceramic Tile Installation Specifications Were Revised? Since each section in ANSI A108/A118/A136.1:2024 denotes a different specification,

Jan 30, 2026 Hot

Ceramic-Lined Flange Adapters

All flanged fittings meet or exceed ASME B16.5 requirements for pressure-temperature ratings, materials, dimensions, tolerances, marking, and testing.

Mar 29, 2026 Hot

Sample : Technical Requirements for Flanges

Purchase order for Flanges include Bill of Material as well as Technical Requirements for Flanges. Sample Technical Requirements for a particular project is as shown below:

May 28, 2026 Hot

Alumina ceramic flange – Haikun New Material Co., Ltd.

Alumina ceramic flanges are indispensable components in modern industry, particularly in high-temperature, high-pressure, and corrosive environments.

Mar 13, 2026 Hot

Microsoft Word

Advanced ceramics is the accepted term in the United States for what are also known as engineering ceramics, structural ceramics, fine ceramics, and technical ceramics. By definition an advanced

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Custom Ceramic Flange Suppliers, OEM Company

Ceramic Flange Manufacturing: Practical Insights into New Ceramic Materials & Production What Key New Ceramic Materials Are Used for Ceramic Flange

Dec 16, 2025 Hot

Ceramic Flange Machining

Precision Machining Ceramic Flange has excellent performance such as wear resistance, super strength, ultra-hard, high temperature resistance (refractory),

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Tiles Technical Specification | Detailed Tile Data Sheet

Explore detailed tiles technical specifications, including size, material, finish & durability. Accurate data for architects & builders.

Mar 04, 2026 Hot

Standard Specification for Common Requirements for Steel Flanges ...

Abstract This specification covers a group of common requirements that shall apply to steel flanges, forged fittings, valves, and parts for piping applications. If the primary melting is

Dec 11, 2025 Hot

High-temperature resistance of ceramic flanges

In today's increasingly demanding high-temperature industrial applications, the selection of ceramic flanges not only concerns the performance of individual components but also directly affects the

Sep 01, 2025 Hot

Technical Requirements for Pipe Flange Forgings

Pipe flange forgings are critical components in industrial piping systems, used to connect pipes, valves, pumps, and other equipment. Their performance directly impacts the safety, sealing

Dec 09, 2025 Hot

Ceramic Flange

Ceramic flange types: According to the fixed way of flange and pipe, can be divided into thread flange, welding flange, loose sleeve flange; according to the form of

Mar 28, 2026 Hot

The purpose and use method of ceramic flange disc

1. The ceramic flange disc is mainly made of zirconia ceramics, alumina ceramics and other ceramic materials. The ceramic flanges for sand mills, ceramic reducer

Oct 19, 2025 Hot

Ceramic Flanges | Wear & Corrosion Resistant | Eshino

In laboratory settings, ceramic flanges are essential for handling experimental processes involving high temperatures, corrosive chemicals, or the need for

Apr 03, 2026 Hot

Ceramic Flanges | Mingrui Ceramic

Ceramic flanges, including the holes and threaded holes on the flanges, and ceramic flange gaskets and seals between the flanges, can be customized and machined. Consult us for detailed machinable

Aug 09, 2025 Hot

Alumina flange, Ceramic flange, Alumina ceramic flange-Zibo Taili ...

It combines the excellent performance of alumina ceramics with the connection function of flanges and is widely used in special working conditions such as high temperature, corrosion, wear resistance and

Jul 17, 2025 Hot

ConFlat® (CF) UHV Flanges & Components Technical

ConFlat (CF) UHV Flanges & Components Technical Notes ConFlat (CF) UHV Flanges
The CF flange (originally called ConFlat) is a sexless design where both

Mar 25, 2026 Hot

Flanges: Technical Overview and Specifications

Explore the technical aspects of flanges, including types, specifications, and applications in industrial systems, with detailed parameters

Jul 04, 2025 Hot

Alumina Ceramic Flange | Advanced Ceramics

Thanks to the high hardness and strength of alumina ceramics, these flanges can maintain their shape and performance even in high-pressure and high-friction

Jan 08, 2026 Hot

What is the wear resistance of ceramic flanges

Traditional metal flanges face challenges in wear and corrosion conditions, while ceramic flanges, with their unique material properties, are becoming an ideal solution for high wear applications.

Aug 06, 2025 Hot

The Significance Of Ceramic Flanges In Pipeline Systems

On the other hand, the manufacturing cost of ceramic flange is relatively high, and the manufacturing process is relatively complicated. Therefore, under some conventional conditions such

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Ceramic tubes

We are your specialist for technical ceramics – especially for use at high temperatures. Through our extensive product portfolio of oxide and non-oxide materials, we offer you the best ceramic solution.

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Flange/Fittings

Depending on the intended use and size of the connection, flanges of different types have been developed. The ISO-KF flange connection was developed by Leybold many years ago and has been

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Ceramic-Coated Pipe Flanges: Best Choice in Harsh Environments?

In extreme industrial conditions—where high temperatures, aggressive chemicals, and abrasive slurries dominate—standard metal flanges often struggle to perform. Over time, even high

Oct 08, 2025 Hot

Flange/Fittings

The clamp flange connection (to DIN 28 404 and ISO 1609) allows components from DN 63 to DN 630 to be connected in any position regardless of the bolt hole arrangement on any fixed flanges.

Mar 14, 2026

Contact Us

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