







WASHERS

Jade Special Metals offers a comprehensive range of metal washers designed for load distribution, vibration resistance, and sealing applications. These washers are manufactured to meet ASTM, ASME, DIN, ISO, and PN standards, ensuring precision engineering and high durability. Available in ferrous grades, nickel alloys (such as Inconel, Hastelloy, and Titanium), and copper alloys, our washers are suitable for industrial, automotive, and construction applications. Highlighting flat washers, lock washers, spring washers, wave washers, and Nord Lock washers, we provide custom solutions for specific needs, ensuring reliability and performance.



SPECIFICATIONS

- Washer Type: Flat Washer, Plain Washer, Lock Washer, Spring Washer, Nord Lock Washer, Fender Washer, Belleville Washers, Dome Washer, Tab Washer, D Shape Washer, C Shape Washer.
- Forming: Punched, Machined
- Metric Size: M2 to M100
- Inch Size: 1/8" to 4"
- Standards: ASTM, ASME, BS, ISO, DIN, DIN-EN, UNI
- Heat Treatments: Annealing, Stress Relieving, Case Hardening, Quenching & Tempering
- Surface Coatings: Xylan, Xylar, PTFE, Zinc Plating, Phosphating, Galvanizing, Hot Dip Galvanizing (HDG), Nickel Plating, Zn-Ni Plating, Chrome Plating, Cadmium Plating, Zinc Flake Coating

FLAT WASHER

Flat Washers by Jade Special Metals are thin, circular discs with a central hole, designed to distribute load, prevent surface damage, and reduce vibration in fastening applications. Made from ferrous metals, stainless steel, nickel alloys (Titanium, Inconel, Hastelloy), copper alloys, and cupronickel alloys, they provide excellent strength, durability, and corrosion resistance. These washers are ideal for structural, industrial, and high-pressure environments. Manufactured to ASTM, ASME, PN, and EN standards, they ensure precision and reliability. Available in various sizes, thicknesses, and finishes, flat washers can be customized to meet specific project needs, providing superior performance and enhanced fastening security.



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LOCK WASHER

Lock Washers by Jade Special Metals are specially designed fasteners that prevent loosening, resist vibrations, and maintain assembly tension in critical applications. These washers are available in various types, including split lock washers, tooth lock washers (internal and external), and wave washers, offering enhanced grip and locking performance. Manufactured from ferrous metals, stainless steel, nickel alloys (Titanium, Inconel, Hastelloy), copper alloys, and cupronickel alloys, they provide excellent strength, durability, and corrosion resistance. Compliant with ASTM, ASME, PN, and EN standards, they are ideal for automotive, construction, and industrial applications. Custom sizes and finishes are available to meet specific project requirements.



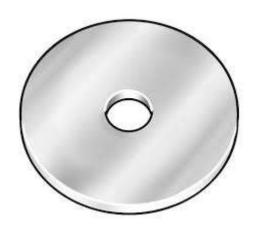
SPRING WASHER

Spring Washers by Jade Special Metals are resilient, circular fasteners designed to absorb shock, maintain tension, and prevent loosening in bolted assemblies. Available in types such as split washers, wave washers, and Belleville washers, they provide flexibility and excellent load distribution. Manufactured from ferrous metals, stainless steel, nickel alloys (Titanium, Inconel, Hastelloy), copper alloys, and cupro-nickel alloys, they ensure superior strength, durability, and corrosion resistance. These washers meet ASTM, ASME, PN, and EN standards, making them suitable for heavy-duty, high-vibration, and high-temperature applications. Custom sizes, coatings, and finishes are also available for specialized requirements.



FENDER WASHER

A Fender washer by Jade Special Metals is a type of large-diameter washer used to distribute the load of a fastener over a larger surface area. Typically made of stainless steel, carbon steel, or other durable materials, it is designed to prevent damage to soft or thin surfaces. Fender washers are commonly used in automotive, construction, and electrical applications. They are available in various sizes, including custom specifications, and comply with industry standards like ASTM, ASME, and ISO. These washers are ideal for providing extra support and ensuring that the fastener remains secure under pressure or heavy loads.



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NORD LOCK WASHER

A Nord-Lock washer by Jade Special Metals is a specialized locking washer designed to prevent bolts and nuts from loosening due to vibrations or dynamic loads. It features two washers with wedge-locking technology, ensuring that the fastener remains secure even under extreme conditions. The washers are typically made of steel, stainless steel, or other high-strength materials, and are commonly used in industries like construction, automotive, offshore, and heavy machinery. Nord-Lock washers are available in various sizes and comply with international standards such as ISO and DIN. They offer a reliable solution for preventing loosening and maintaining the integrity of assemblies.



BELLEVILLE WASHER

A Belleville washer by Jade Special Metals is a type of conical-shaped spring washer designed to provide a load-bearing and preload function in mechanical assemblies. It is typically used to absorb shock, compensate for thermal expansion, or maintain constant tension. Made from high-strength materials such as stainless steel, carbon steel, and other alloys, Belleville washers are widely used in automotive, aerospace, electrical, and industrial applications. They are available in various sizes, including custom specifications, and meet industry standards like ASTM, DIN, and ISO. These washers are ideal for applications requiring flexibility, durability, and resistance to fatigue.



WAVE WASHER

A Wave washer by Jade Special Metals is a type of spring washer with a unique wave-like shape, designed to provide load-bearing and preload properties in mechanical assemblies. It is used to absorb shock, reduce vibrations, and maintain constant pressure on fasteners. Made from stainless steel, carbon steel, and other durable alloys, Wave washers are commonly used in automotive, electrical, and industrial applications. They are available in various sizes, including custom specifications, and comply with international standards like ASTM, ISO, and DIN. These washers are ideal for applications that require compactness, flexibility, and resistance to wear.



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SQUARE WASHER

A Square washer by Jade Special Metals is a type of washer with a square shape, designed to provide a larger surface area to distribute the load of a fastener evenly. This helps to reduce the risk of damage to soft or thin materials. Typically made from stainless steel, carbon steel, or other durable materials, Square washers are commonly used in construction, furniture assembly, and electrical applications. Available in various sizes and custom specifications, they comply with industry standards like ASTM, ISO, and DIN. These washers offer reliable performance in applications requiring extra support and load distribution.



TAB WASHER

A **Tab washer** by **Jade Special Metals** is a type of washer designed with a **tab** that fits into a corresponding **slot** on a fastener or surface to prevent loosening due to vibration or external forces. It is often used in applications requiring **locking** or **securing** fasteners in place. Made from **stainless steel**, **carbon steel**, or other robust materials, **Tab washers** are commonly used in **automotive**, **machinery**, and **construction** industries. Available in various sizes and **custom specifications**, they comply with international standards such as **ASTM**, **ISO**, and **DIN**. These washers provide a **reliable locking solution** to maintain the integrity of fastened assemblies.



DOME WASHER

A Dome washer by Jade Special Metals is a type of washer with a dome-shaped design, typically used to distribute the load of a fastener over a larger surface area. Its curved shape helps absorb pressure and reduces the risk of damage to soft or delicate materials. Made from materials like stainless steel, carbon steel, and other durable alloys, Dome washers are commonly used in automotive, electrical, and construction applications. Available in various sizes, including custom specifications, they meet industry standards such as ASTM, ISO, and DIN. These washers are ideal for providing load distribution, shock absorption, and protection in mechanical assemblies.



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C-WASHER & D-WASHER

C-Washer and D-Washer by Jade Special Metals are specialized washers designed for specific mechanical applications. A C-Washer features a C-shaped design, offering resistance against loosening from vibrations or dynamic loads, commonly used in automotive, electrical, and industrial applications. The D-Washer, with its D-shaped design, provides a non-rotational effect by securely fitting against a surface to prevent movement in fastened connections. Made from high-strength materials such as stainless steel and carbon steel, both washers are available in various sizes and custom specifications, meeting ASTM, ISO, and DIN standards for reliability and durability.



DUPLEX & SUPER DUPLEX MATERIAL GRADES

DUPLEX 31803	DUPLEX 32205	SUPER DUPLEX 32750
UNS: S31803	UNS: S32205	UNS: S32750
Werkstoff: 1.4462	Werkstoff: 1.4462	Werkstoff: 1.4410
SUPER DUPLEX 32760	SUPER DUPLEX 2507	
UNS: S32760	UNS: S25007	
Werkstoff: 1.4501	Werkstoff: 1.4410	

STAINLESS STEEL MATERIAL GRADES

STAINLESS STEEL 304	STAINLESS STEEL 304L	STAINLESS STEEL 304H
UNS: S30400	UNS: S30403	UNS: S30409
Werkstoff: 1.4301	Werkstoff: 1.4306	Werkstoff: 1.4948
STAINLESS STEEL 316	STAINLESS STEEL 316L	STAINLESS STEEL 316H
UNS: S31600	UNS: S31603	UNS: S31609
Werkstoff: 1.4401	Werkstoff: 1.4404	Werkstoff: 1.4919
STAINLESS STEEL 309	STAINLESS STEEL 310	STAINLESS STEEL 310S
UNS: S30900	UNS: S31000	UNS: S31008
Werkstoff: 1.4828	Werkstoff: 1.4840	Werkstoff: 1.4845
STAINLESS STEEL 317L	STAINLESS STEEL 347	STAINLESS STEEL 347H
UNS: S31703	UNS: S34700	UNS: S34709
Werkstoff: 1.4438	Werkstoff: 1.4550	Werkstoff: 1.4961
STAINLESS STEEL 409	STAINLESS STEEL 409M	STAINLESS STEEL 410M
UNS: S40900	UNS: S40977	UNS: S41008
Werkstoff: 1.4512	Werkstoff: 1.4513	Werkstoff: 1.4000
STAINLESS STEEL 446	STAINLESS STEEL 904L	
UNS: S44600	UNS: N08904	
Werkstoff: 1.4749	Werkstoff: 1.4539	

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NICKEL ALLOYS MATERIAL GRADES

HASTELLOY C22	HASTELLOY C276	HASTELLOY B2
UNS: N06022	UNS: N10276	UNS: N10665
Werkstoff: 2.4602	Werkstoff: 2.4819	Werkstoff: 2.4617
NICKEL 200	NICKEL 201	
UNS: N02200	UNS: N02201	
Werkstoff: 2.4060	Werkstoff: 2.4068	
MONEL 400	MONEL K500	
UNS: N04400	UNS: N05500	
Werkstoff: 2.4360	Werkstoff: 2.4375	
INCONEL 600	INCONEL 601	INCONEL 625
UNS: N06600	UNS: N06601	UNS: N06625
Werkstoff: 2.4816	Werkstoff: 2.4851	Werkstoff: 2.4856
INCONEL 718	INCONEL 800	INCONEL 800H
UNS: N07718	UNS: N08800	UNS: N08810
Werkstoff: 2.4668	Werkstoff: 1.4876	Werkstoff: 1.4958
INCONEL 617	INCONEL X-750	INCONEL 800HT
UNS: N06617	UNS: N07750	UNS: N08811
Werkstoff: 2.4663	Werkstoff: 2.4669	Werkstoff: 1.4959
INCONEL 825	ALLOY 20	
UNS: N08825	UNS: N08020	
Werkstoff: 2.4858	Werkstoff: 2.4660	
TITANIUM GRADE 2	TITANIUM GRADE 5	TITANIUM GRADE 7
UNS: R50400	UNS: R56400	UNS: R52400
Werkstoff: 3.7025	Werkstoff: 3.7165	Werkstoff: 3.7235







We offer a wide range of Material Grades as per SAE / EN / DIN Etc. At best Market prices in India. To know more about complete product details please feel free to contact us on sales@jadealloys.com or call us on +91 9987685906

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