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Why Stainless Steel

Brief description of the Stainless Steel
Advantages



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What is Stainless Steel

- Stainless steels are high-alloy steels that have superior corrosion resistance than other steels because they contain large amounts of chrome.
- Stainless steels can contain anywhere from 4-30 percent chrome, however most contain around 10 percent.



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What makes it corrosion resistant

- Chrome reacts with the oxygen of the air and forms chromium oxide.
- Chromium oxide is a transparent micro film that protects steel against corrosion.
- This reaction is automatic and is self-initiated whenever there is a destruction on the surface film.



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Stainless steel vs. Chrome plated brass

- Then why is stainless steel more resistant and more durable than chrome plated brass fittings since they both have Chrome at their surface?



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- Stainless steel is a chrome based alloy while chrome plate brass items have a micro chrome surface.

Stainless steel vs. Chrome plated brass



Stainless Steel



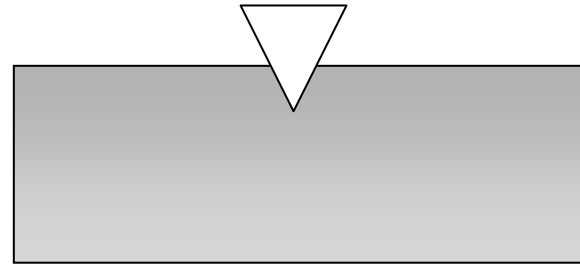
Chrome plated brass



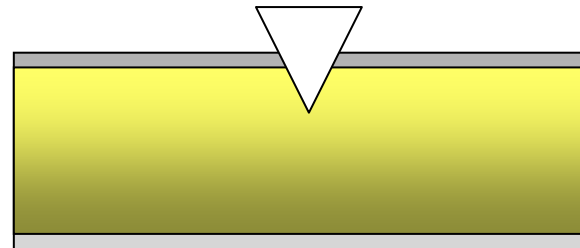
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- With standard usage and wear this surface is destroyed.

Stainless steel vs. Chrome plated brass



Stainless Steel



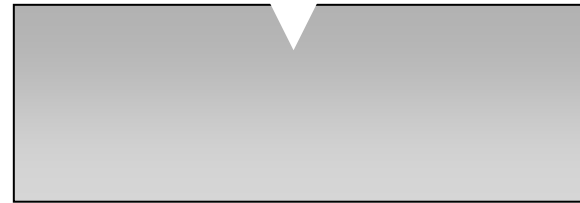
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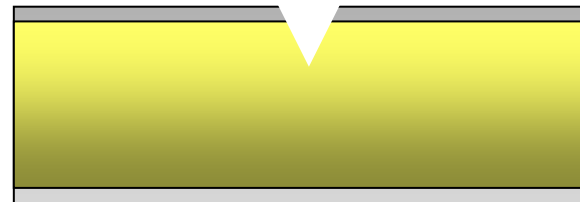
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See the future
NOW!

- With stainless steel the result is:
 - Stainless Steel
- With chrome plated the result is:
 - Unprotected and vulnerable brass



Stainless Steel



Chrome plated brass



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All Stainless Steels are the same?

- A common fact is: “I had a Stainless Steel product and it got rusted! Why?”
- This is because not all Stainless Steels are the same.
- Stainless steels can be divided into two basic groups based on their composition:
 - Chrome Steel (CS)
 - Chrome Nickel Steel (CNS)



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Stainless steel characteristics

- As we have already seen Chrome makes stainless steel resistant to corrosion.
- Nickel is making stainless steel resistant to chemicals.



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Chrome Steel (CS)

- Chrome steel is a group of stainless steels that contains only chrome. This makes it resistant to corrosion but not to chemicals. Even to normal household cleaners. These are also known as magnetic stainless steels.
- A well known Chrome Steel is AISI430. This is used mainly by companies offering low quality and low cost stainless steel products.
- The absence of Nickel makes this group of stainless steels at least 50% cheaper than Chrome-Nickel Steels.



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Chrome Nickel Steel (CNS)

- This is a group of high quality stainless steels that contain Chrome and Nickel. These are known as non magnetic stainless steels.
- The most common used one is AISI 304 or 18/10 meaning that it contains 18% of chrome and 10% of nickel.
- This makes it resistant to rust as well as normal household chemicals.
- Saucepans are made from 304 stainless steel. How often do you find a rusted saucepan?
- Our products are made from AISI304 stainless steel and are guaranteed for 25 years against corrosion.



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The magnet technique

- A common technique used to check the “quality” of stainless steel is to put a magnet on it. But this is not a safe test.
- If the product is not magnetic then it is sure that it is a chrome-nickel steel.
- If it does magnetises it doesn't mean that it is not a chrome-nickel steel. Certain manufacturing processes like bending and turning make chrome nickel steel magnetized.



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Right Raw Material. Is it enough?

- But is it enough to use only top quality raw materials?
- No. You need the right manufacturing techniques to produce a top quality product.
- Wrong manufacturing techniques can destroy the characteristics of a material.



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Our technical advantages

- We do not use welding in our production. The heat from welding is altering the modular structure of stainless steel thus making it more vulnerable to rust.
- All our products are assembled either with stainless steel screws or with mechanical deformation.
- Even the screws for mounting the products to the wall are made of stainless steel.



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Our technical advantages

- All our manufacturing processes are cold processes, we do not use any heat treatment at all.
- Heat treatments tend to alter the structure of the metals and affect the natural protection of stainless steel.



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Known surface finishes of stainless steel

- Stainless steel products are widely known with the Satin finish.
- One of the most difficult processes is to make stainless steel bright polished. All our products are available in bright polished finish.
- So what we are offering is a stainless steel product that has the same look as a chrome plated brass one.



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See the future now!

Stainless steel equipment