

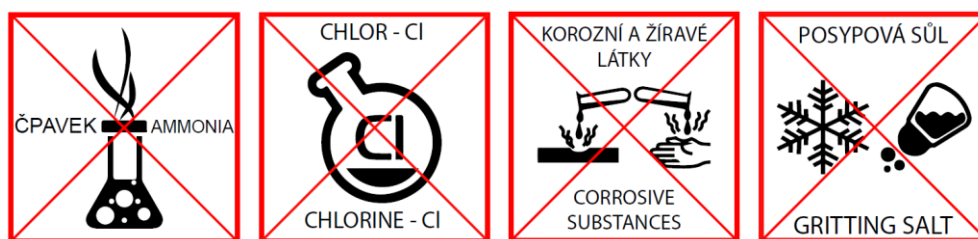
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THE RANGE OF APPLICATION OF AISI 304 (1.4301) STAINLESS STEEL PRODUCTS

Characteristics of stainless steel:

The most common type is chromium-nickel austenitic steel AISI 304 (1.4301), informally also known as "food-grade steel". It is the most widely used stainless steel on the market. Due to its low carbon content it is easy to weld. Its cold ductility is also excellent, and it can strengthen as a result of forming. It is easy to bend and press. This steel is very easy to polish and is resistant to temperatures up to 300-350°C. Its workability is not very good but possible when well-sharpened tools are used. It is resistant to water, water vapour, air-contained humidity, edible acids and weak organic and inorganic acids. It is weatherproof except in regions by the sea and environments where substances such as chlorine, ammonia and road salt appear in high concentrations.

The application range is wide. It is used in food processing, the chemical and dairy industry, in beer-brewing and wine-making processes and in the pharmaceutical and cosmetic industry. It also plays a significant role in architecture and design, car design, production of household fittings and fixtures, health care equipment including surgical tools, in art and jewellery, and industrial and domestic kitchen appliances and equipment including bar taps.



Yours faithfully

Jan Hájek

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