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Data on Common Alloys

Austenitic Stainless Steel (non-magnetic)

303 / 1.4305 - Free machining version of 304. By the addition of more Sulphur the machinability is greatly improved. Not recommended for welding.

304L / 1.4307 - (Carbon 0.03% max) general purpose grade. Good for bending and welding. Corrosion resistant for most applications.

316L / 1.4404 – (Carbon 0.03% max) Contains Molybdenum added for greater corrosion resistance. Food and marine applications where toxic solutions may attack the metal. Good welding properties.

321 / 1.4541 - Contains titanium which is added in proportion to the carbon content. This prevents inter-granular corrosion after welding. Can be used in higher temperatures than most austenitic grades. Maximum service temperature 800 Deg C.

310 / 1.4845 - High Chromium (25%) and Nickel (20%) content giving better heat resistance. Furnace applications. Maximum service temperature 1100 Deg C.

Martensitic Stainless Steel (magnetic / less corrosion resistant than the Austenitic grades)

431 / 1.4057 - We stock in high tensile condition 'T' to QT900. Higher Chromium (17%) and Nickel (2.1/2%) than other martensitic makes it more corrosion resistant (but not as good austenitic). The tensile strength can be increased by heat treating.

416 / 1.4005 - Free machining version of 410. Machinability is improved by increase in sulphur.

410 / 1.4006 - General purpose grade. 13% chrome gives a fair resistance to corrosion.

420 / 1.4028 - Condition 'R' but higher Carbon allows higher hardness after heat treatment.

The independent with the Stainless reputation

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Note:

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