

## Rustproof steel A2

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### General information

|                 |              |                           |
|-----------------|--------------|---------------------------|
| Designation     | ISO 426/2 :  | X10CrNiS 18 9<br>AISI 303 |
| Material number | DIN 17'660 : | 1.4305                    |

### Physical data

|                     |   |      |                   |
|---------------------|---|------|-------------------|
| Density             | : | 7.9  | g/cm <sup>3</sup> |
| Elect. conductivity | : | 1.37 | MS/m              |

### Mechanical data

|                  |         |           |                   |
|------------------|---------|-----------|-------------------|
| Tensile strength | Rm :    | 500 – 700 | N/mm <sup>2</sup> |
| Yield strength   | Rp0.2 : | 195       | N/mm <sup>2</sup> |
| Ultimate strain  | :       | >35       | %                 |
| Hardness         | :       | 130-180   | HB30              |

### Composition

|           |      |             |   |
|-----------|------|-------------|---|
| Carbon    | C :  | <0.12       | % |
| Chrome    | Cr : | 17.0 – 19.0 | % |
| Nickel    | Ni : | 8.0 – 10.0  | % |
| Sulfur    | S :  | 0.15 – 0.35 | % |
| Manganese | Mn : | <2.0        | % |
| Silicon   | Si : | <1.0        | % |
| Phosphor  | P :  | <0.06       | % |
| Iron      | Fe : | Residual    |   |

### Chemical resistance

Steel A2 is resistant under normal atmosphere for interior and outside applications, against diluted organic and oxidizing acids, caustic solutions, neutral and alkaline salt solutions as well as organic compounds. Steel A2 will be attacked by inorganic acids, halogens, chloride and chloridous solutions (e.g. sea water) or atmospheres (hole and stress corrosion).

### AGRO AG

Hunzenschwil, May 12. 2011

This table is arranged to our best knowledge and is to advise you without obligation. All values are approximate values and are based on tests done by our suppliers. Modifications remain reserving.