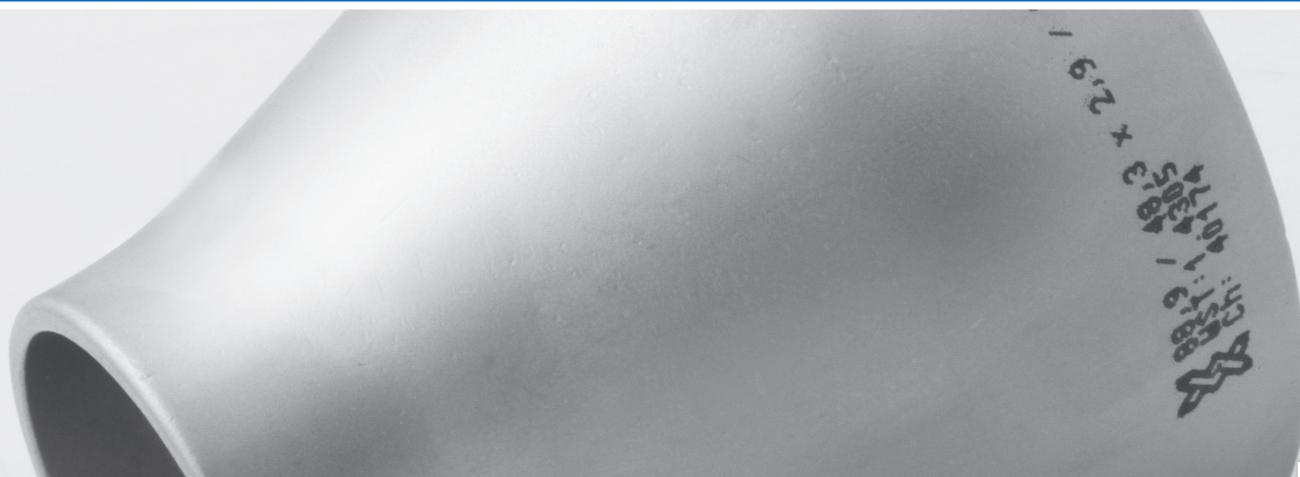


C ≤ 0,10 / Cr 17,0 – 19,0 / Ni 8,0 – 10,0 / S 0,15 – 0,35
1.4305 / X8 CrNiS 18-9 / DIN EN 10088 / DIN 17440
AISI 303 / BS 303 S 31 / SiS 2346*



Applications

Transportation and automotive engineering; electrical installations; decoration and kitchen fittings; mechanical engineering.

Processing techniques

Machining and automatic machining.



Corrosion resistance ●●○○○

Certain reservations must be made with regard to the resistance properties. Acid and chloride-containing media can induce pitting as well as cavity or crack corrosion. The geometry of the workpieces must be aligned such that retention or catchment zones of corrosive products are avoided. The workpiece is compatible with those fats, oils and lubricants generally used in engineering applications.

Mechanical properties ●●○○○

Optimal processing properties are achieved by means of heat treatment in the temperature range of between 1000 and 1800 °C followed by rapid cooling in air or water.

Forging ●○○○○

The malleability of this material type is strongly limited.

Welding ○○○○○

Due to the high sulphur content and the resultant tendency to fracture, welding material 1.4305 is not recommended.

Note

Compared to 1.4301, 1.4305 can only be polished to a limited extent.