with silicon and aluminium additives

 $C \le 0.12$ / Cr 19.0 - 23.0 / Ni 30.0 - 34.0 / $Si \le 1$ / Al 0.15 - 0.6 / Ti 0.15 - 0.60 1.4876 / X10 NiCrAlTi 32-21 / DIN EN 10095 / SEW 470 AISI B 163 / BS 3076 NA 15 H*



Applications

Chemical industry; power station; mechanical engeneering; environmental technology.

Processing techiques

Machining; open-die and drop forging.





Scaling resistance

1.4876 is used at temperatures of up to 1100 °C. Limiting temperature in continuous operation: Oxidising atmosphere: 1075 °C; Oxidising sulphur-containing atmosphere: 1000 °C; Reducing carbon-containing atmosphere: 1075 °C; Reducing sulphur-containing atmosphere: 1000 °C.

Mechanical properties ●●○○○

This austenitic heatproof material, known as "Alloy 800", is extremely versatile, thanks to its corrosion resistance, scaling resistance and high heat resistance.

Forging ••000

Heating without special precaution to 1150 °C followed by rapid cooling in water or air.

Welding ••••

1.4876 can be welded without difficulty using all processes.

Machining ●0000

Owing to the austenitic microstructure, poorer machinability than heatproof, ferritic materials.

Note

Heat treatment is recommended after hot and severe cold forming.

