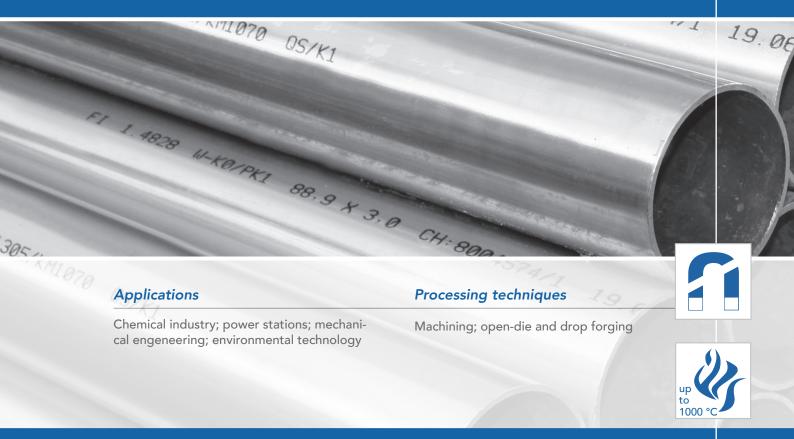
C ≤ 0,20 / Cr 19,0 – 21,0 / Ni 11,0 – 13,0 / Si 1,5 – 2,0 1.4828 / X15 CrNiSi 20-12 / DIN EN 10095 / SEW 470 AISI 309 / BS 309 S 24\*



### Scaling resistance ••••

1.4828 is used because of the chemical stability at temperatures not exceeding 950 °C, particularly in a sulphur-containing atmosphere. Limiting temperatures in continuous operation: Oxidising atmosphere: 950 °C; Oxidising sulphur-containing atmosphere: 850 °; Reducing carbon-containing atmosphere: 850 °C; Reducing sulphur-containing atmosphere: 750 °C.

# Mechanical properties ●●○○○

Austenitic heatproof materials are characterised by good mechanical properties at temperatures exceeding 550 °C, when subjected both to short- and long-term stress. However, the suitability in each case is determined by the intended load.

### Forging ••000

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

### Welding ••••

1.4828 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.



<sup>\*</sup> See "international comparison of materials"