

# Thermodur 2787 / 2787 Superclean

X23CrNi17

C 0.22 Si 0.40 Mn 0.50 Cr 16.50 Ni 1.70

## Steel properties

Corrosion and scaling resistant hot-work tool steel, which can easily be tempered.

## Physical properties

### Coefficient of thermal expansion

at °C	20 – 100	20 – 200	20 – 300	20 – 400	20 – 500
$10^{-6} \text{ m}/(\text{m} \cdot \text{K})$	10.0	10.5	11.0	11.0	11.0

### Thermal conductivity

at °C	20
$\text{W}/(\text{m} \cdot \text{K})$	25.0

## Applications

Tools for glass product manufacturing

**For your most challenging requirements, we recommend Thermodur 2787 Superclean.**

## Heat treatment

### Soft annealing °C

710 – 750

### Cooling

Ofen

### Hardness HB

max. 245

### Hardening °C

990 – 1020

### Quenching

Oil or  
hot bath, 200 °C

### Hardness after quenching HRC

47

### Tempering °C after quenching in oil – HRC

100	200	300	400	500	600
46	45	45	44	43	36

## Tempering diagram

