Thermodur 2782 Superclean x16CrNiSi25-20 C 0.15 Si 2.00 Mn 0.80 Cr 25.00 Ni 20.00

Steel	properties
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Non-scaling, austenitic hot-work tool steel, which is resistant to oxidizing environments and displays good cold workability. Resistant to scaling in air up to approx. 1150 °C. Delivered in precipitation hardened condition 650 – 800 MPa.

Physical properties Coefficient of thermal expansion

at °C 10-6 m/(m • K)	20 – 200 16.5	20 – 400 17.0	20 – 600 17.5
Thermal conductivity			
at °C	20		700
W/(m • K)	13.0		19.0

Applications

Tools for glass product manufacturing, such as punches, couplers, blowing iron heads and mandrels, orifices, blowpipes, and gathering irons.

Heat treatment

Soft annealing °C	Quenching	Hardness after quenching MPa
1000 – 1100	Air or water	495 – 705