

HEAT-RESISTING STEELS

Available Product Variants

Plates

Product Description

Heat treatment shops:

Boxes and pots, muffles, retorts, crucibles and pans for all kinds of heat treatment processes. Heating cartridges and plates.

Furnace and boiler construction:

Grates and grate segments, fittings, conveyor components, supporting and walking beams, rams, rails, rollers, doors, gates and traps, housings, recuperators, fans, superheater suspensions, tube clamps, soot blower pipes.

Glass, porcelain, enamel, cement and ceramic industries:

Burner tips, rings, segments and components for rotary and lepol kilns.

Mechanical engineering:

Grid bars, valves and spindles, stirrer arms and teeth, sheath tubes for thermocouples, fittings, drums, bolts, nuts, rivets.

Petroleum industry:

Tubes und tubular components.

Process Melting

VID

Applications

- > Components for Chemical plants (incl. LNG, FGD, Urea, LDPE, etc.)

> Rolls
- > Mechanical Engineering

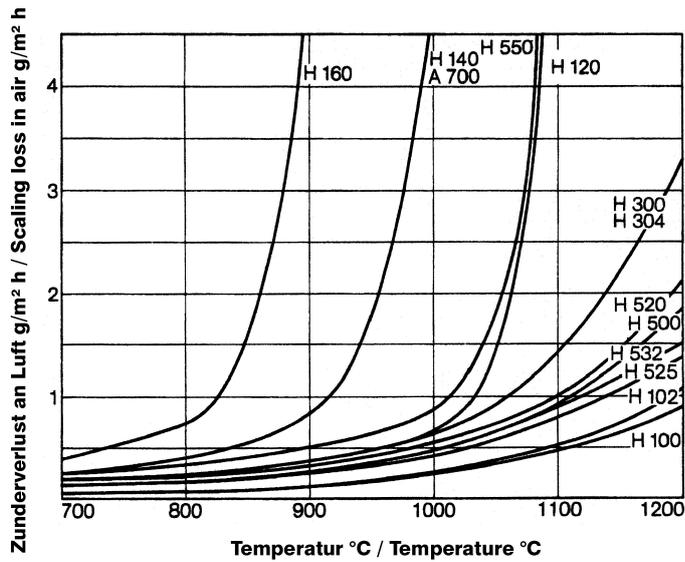
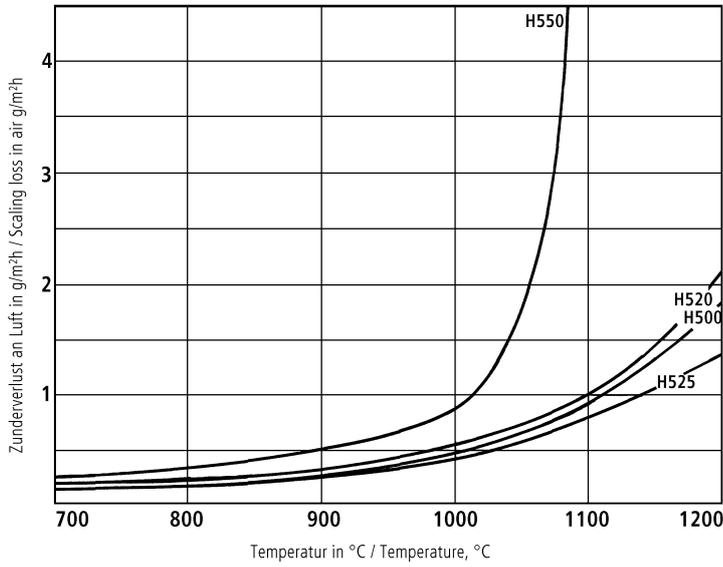
> Tubular Products, Flanges, Fittings
- > Other Oil and Gas + CPI components

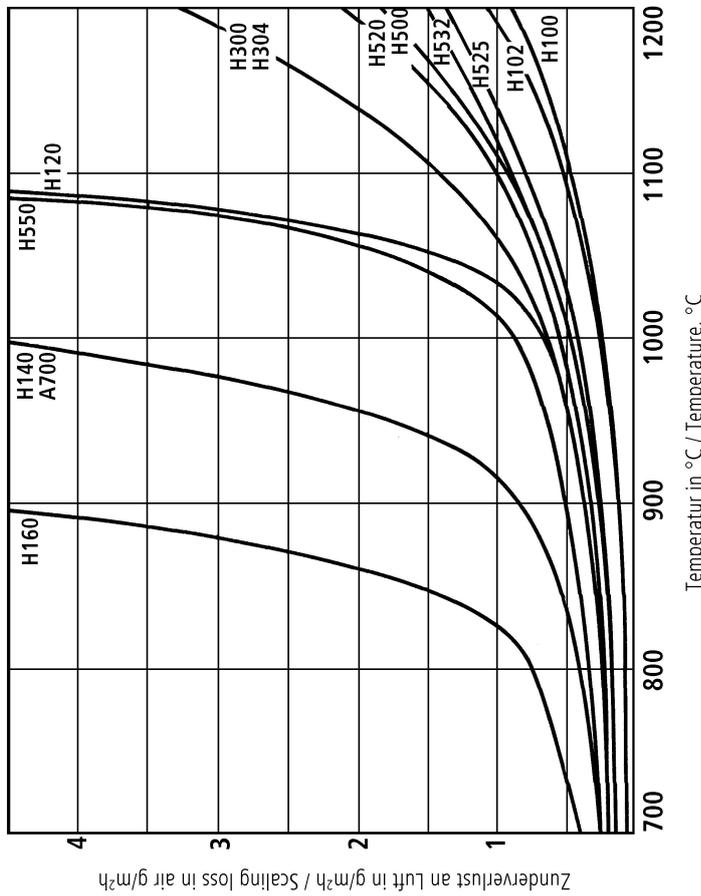
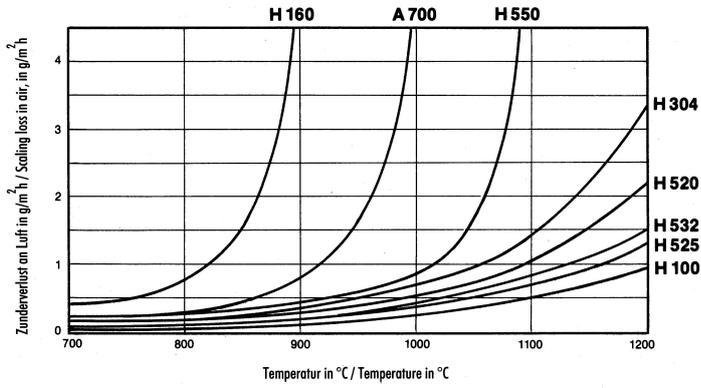
Technical data

Material designation		Standards	
1.4841	SEL	~310S24	BS
X15CrNiSi25-20	EN	STN: 17 255	STN
S31400	UNS		
314	AISI		
310S31	bs		

Chemical composition (wt. %)

C	Si	Mn	Cr	Ni
0.08	1.7	1.2	24.8	19.8





Physical Properties

Density	7.9	[kg/dm ³]
Thermal conductivity	15	[W/(m.K)]
Specific heat	500	[kJ/kg K]
Spec. electrical resistance	0.9	[Ohm.mm ² /m]
Modulus of elasticity	198	[10 ³ N/mm ²]

Thermal Expansions between 20°C | 68°F and ...

Temperature (°C)	200	400	600	800	1,000
Thermal expansion (10 ⁻⁶ m/(m.K))	15.5	17	17.5	18	19

If other available product variants are listed in addition to long products, please note that these may differ in terms of melting process, technical data, delivery and surface condition as well as available product dimensions. For mandatory technical specifications, other requirements and dimensions, please contact our regional voestalpine BÖHLER sales companies. The data contained in this brochure is merely for general information and therefore shall not be binding on the company. We may be bound only through a contract explicitly stipulating such data as binding. Measurement data are laboratory values and can deviate from practical analyses. The manufacture of our products does not involve the use of substances detrimental to health or to the ozone layer.