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
- Hot Rolling

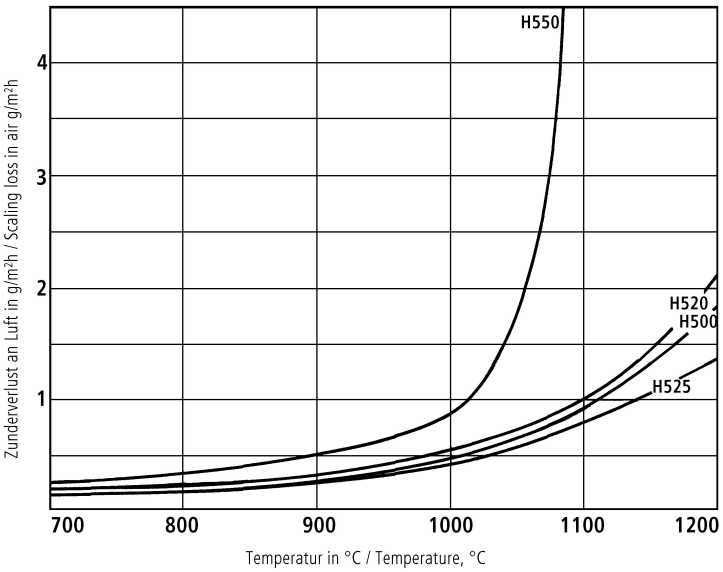
Technical data

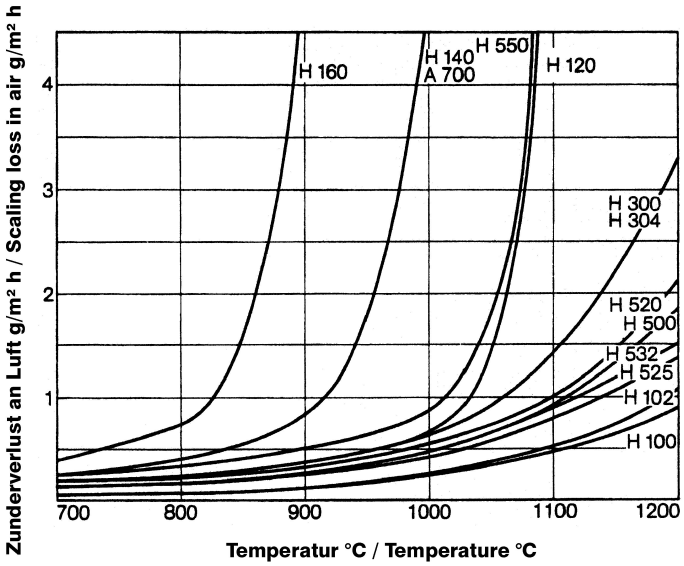
Material designation	
1.4841	SEL
X15CrNiSi25-20	EN
S31400	UNS
314	AISI
310S31	bs

Standards	
~310S24	BS
STN: 17 255	STN

Chemical composition (wt. %)

C	Si	Mn	Cr	Ni
0.08	1.7	1.2	24.8	19.8


H550
H520
H500
H525
4
3
2
1
700
800
900
1000
1100
1200
Zunderverlust an Luft in g/m²h / Scaling loss in air g/m²h
Temperatur in °C / Temperature, °C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H 140
A 700
H 550
H 120
H 300
H 304
H 520
H 500
H 532
H 525
H 102
H 100
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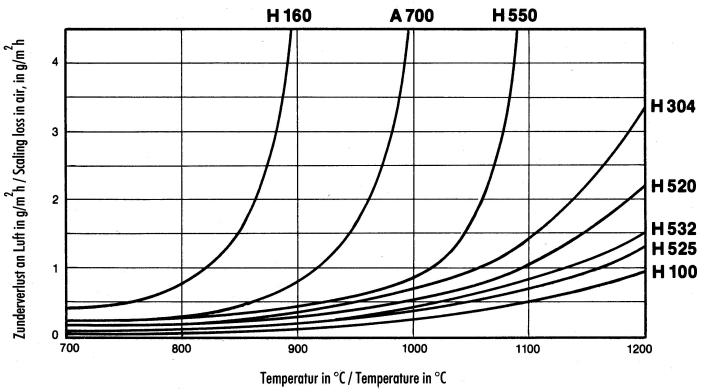
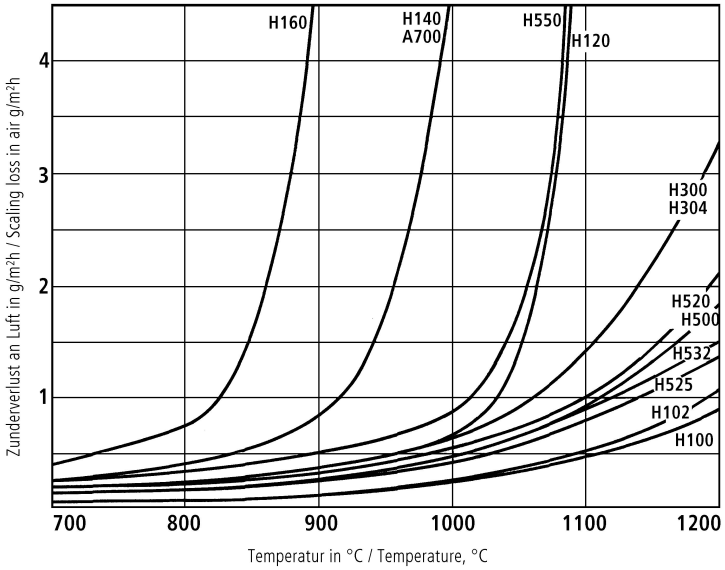
Zunderverlust an Luft g/m² h / Scaling loss in air g/m² h
Temperatur °C / Temperature °C





Physical Properties

Density	7.9	[kg/dm³]
Thermal conductivity	15	[W/(m.K)]
Specific heat	500	[kJ/kg K]
Spec. electrical resistance	0.9	[Ohm.mm²/m]
Modulus of elasticity	198	[10³N/mm²]

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.

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ONE STEP AHEAD.

H525 EN_US – 09.2026