

# HEAT-RESISTING STEELS

## Available Product Variants

Plates

## Product Description

Heat treatment shops, Furnace and boiler construction, Glass, porcelain, enamel, cement and ceramic industries, Mechanical engineering, Petroleum industry

## Applications

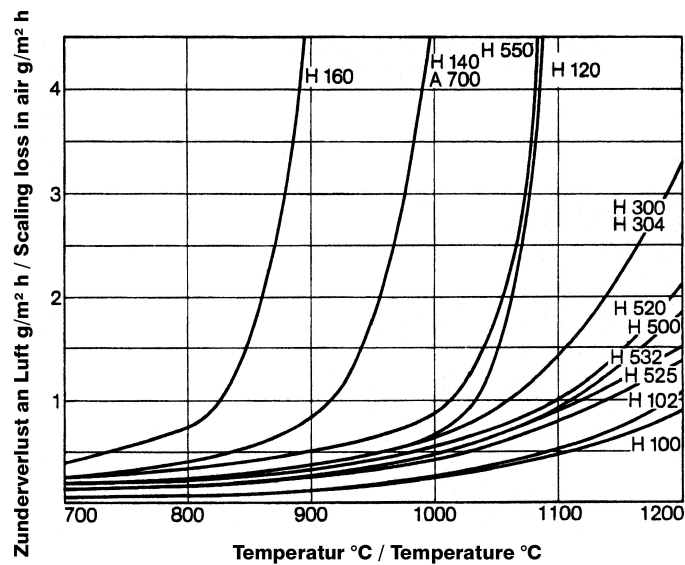
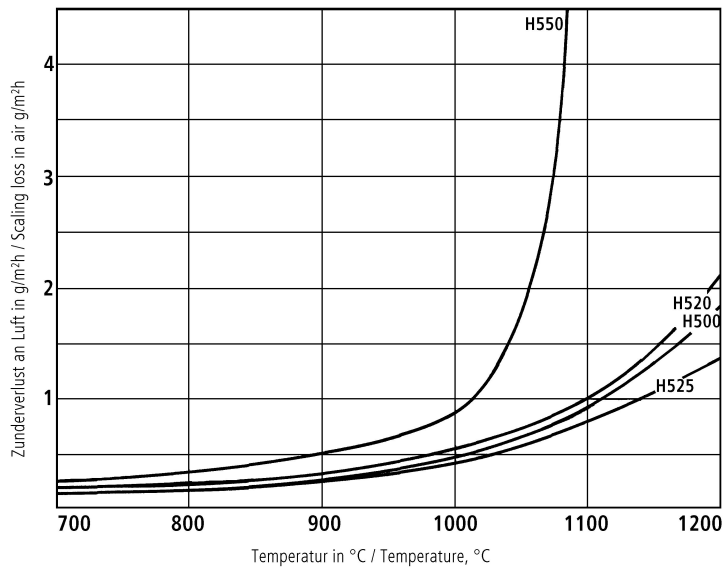
- > Components for Chemical plants (incl. LNG, FGD, Urea, LDPE, etc.)
- > Distributors for Component Applications
- > Flowlines & Connectors
- > General Components for Mechanical Engineering
- > Other Components
- > Rolls
- > Tubular Products, Flanges, Fittings
- > Wellhead, X-mas trees and Manifolds (incl. Tubing hangers), BOPs
- > Components for Industrial Gas Compressors
- > Distributors or producers of standard parts without knowledge of final applications
- > Food processing industry
- > Mechanical Engineering
- > Other Oil and Gas + CPI components
- > Shafts
- > Well Completion Tools
- > CPI (incl. LNG, Urea)
- > Drilling tools and components
- > Forging Applications
- > Oil & Gas / CPI
- > Other Power Generation Components
- > Steel Industry
- > Well Logging Tools

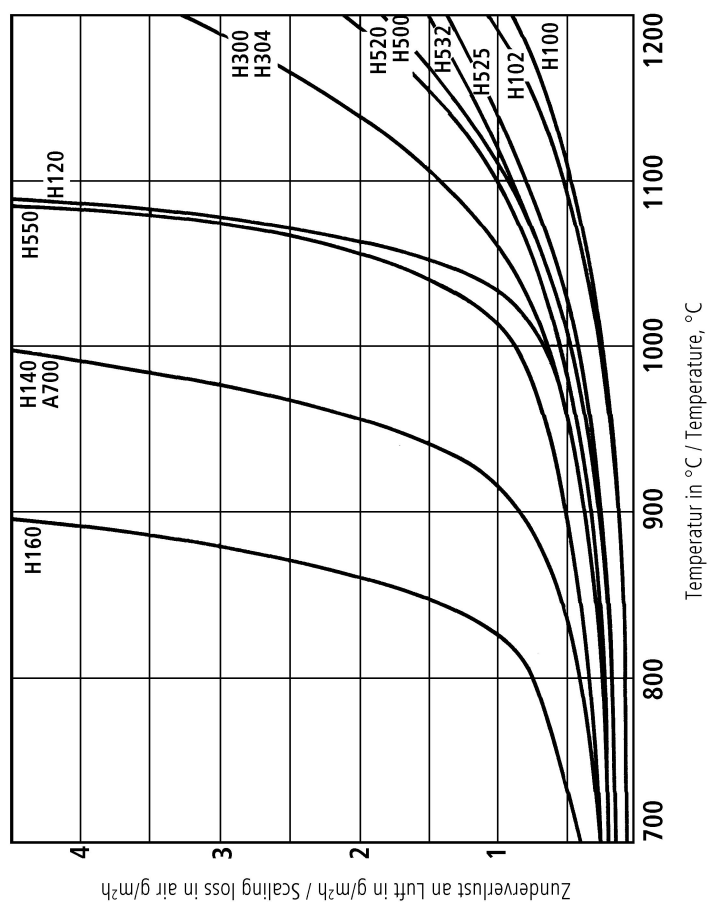
## Technical data

Material designation	
1.4876	SEL
X10NiCrAlTi32-21	EN
N08800	UNS
N08810	
N08811	
NCF 800 HTF	JIS
NCF 800 TF	
NCF 800	
NCF 800 TP	
NCF 800 TB	

## Chemical composition (wt. %)

C	Si	Mn	Cr	Ni	Ti	Al
0.07	0.35	0.75	20.8	32	0.3	0.3





## Physical Properties

Density	8	[kg/dm³]
Thermal conductivity	12	[W/(m.K)]
Specific heat	550	[kJ/kg K]
Spec. electrical resistance	1	[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	16	17	17.5	18.5

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.