

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

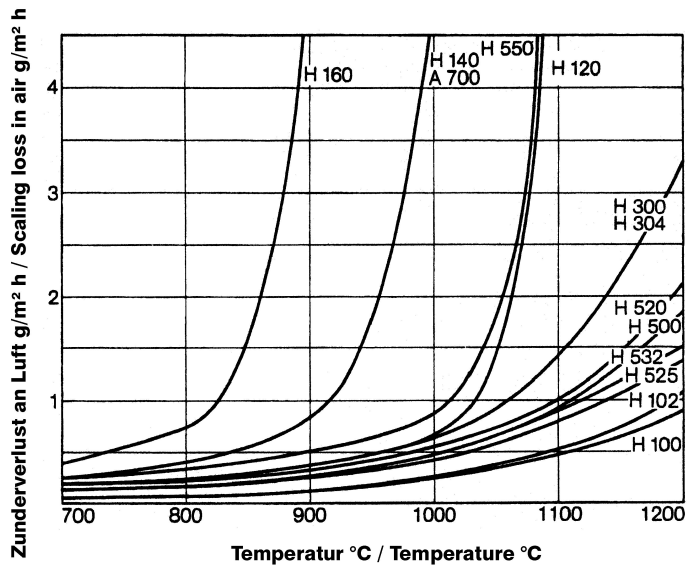
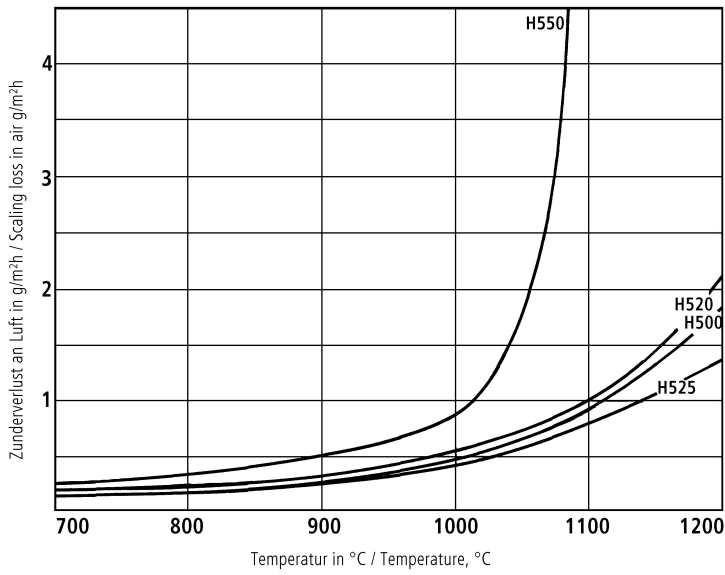
- > Components for Chemical plants (incl. LNG, FGD, Urea, LDPE, etc.)
 - > Distributors for Component Applications
 - > Flowlines & Connectors
 - > Other Oil and Gas + CPI components
 - > Shafts
 - > Well Logging Tools
- > Components for Industrial Gas Compressors
 - > Distributors or producers of standard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

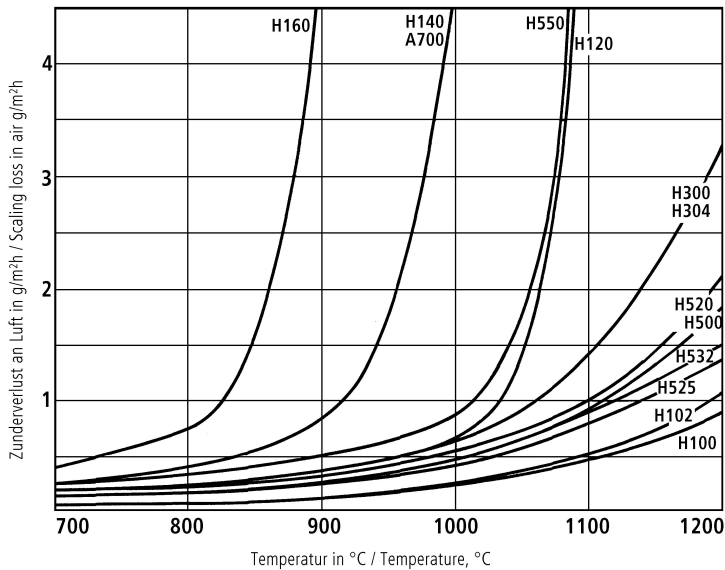
Technical data

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

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/dm ³] |
| Thermal conductivity | 12 | [W/(m.K)] |
| Specific heat | 550 | [kJ/kg K] |
| Spec. electrical resistance | 1 | [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 | 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.

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