



SWISS STEEL

Comprehensive range of stainless steel solutions



Swiss
Steel
International



SWISS STEEL is a leading global producer of special long steel with operations around the world. The independent Group has an integrated business model built around the Divisions Production and Sales & Services which allows SWISS STEEL to leverage strategic and operational synergies in the interest of its customers.

Production – specialized steelmaking, forging and rolling plants in Europe and North America; drawing mills, bright steel production and heat treatment in northern and western Europe and Turkey.

Our Production Division encompasses the business units Ascometal, Deutsche Edelstahlwerke, Finkl Steel, Steeltec, Swiss Steel and Ugitech, operating a total of nine state-of-the-art steelmaking EAFs in Canada, France, Germany, Switzerland and the USA. The steel plants complement each other in terms of formats and qualities, covering the entire spectrum for special long steel. Besides the three main product groups – tool steel, engineering steel and stainless steel – the range includes special steel products. Characteristics such as close dimensional tolerance, strength and surface quality are precisely matched to our customer's brief.

Sales & Services – a reliable global partner in steel consulting, processing and supply.

We combine our sales activities within our Sales & Services Division, and guarantee the consistent and reliable supply and end-to-end customer solutions worldwide with around 70 distribution and service branches in more than 30 countries. These include technical consulting and downstream processes as sawing, milling and hardening, heat treatment as well as supply chain management. We pursue the goal of offering our customers global access to our products and services – with excellent quality standards and first-class service.

Such a service approach based on our state-of-the-art product range leads to long lasting relations with our customers who value us as partner in their development. Don't hesitate to contact us for any special need you require in your next project and your innovation process.

Our range of local services includes:

- › Local supply chain services
- › Just in time deliveries
- › Cutting
- › Chamfering
- › Technical support



Our star products dedicated to the most stringent markets

Aerospace:

- › AERODUR®, UGIPURE®, UGI® AIR for the requested cleanliness in stainless steel

Automotive:

- › UGIMA® and NIRO-CUT® improved machinability grades
- › EXHAUST® F1, ferritic welding wire for exhaust lines
- › MAGNADUR®, ACIDUR®, CORRODUR® and ELECTRODUR® 4105 range of stainless steel
- › UGIPERM® with optimized magnetic properties
- › UGIPURE® for high-performance springs
- › UGIWELD® for optimized results in welding

Medical:

- › ACIDUR® 4441, UGIPURE® 4441, for implantable medical devices
- › CORRODUR® 4021, UGI® 4197, UGI® 4542 martensitic and austenitic steels for ancillary products and surgical instruments

Mining:

- › UGICHROM® hard chromium plated bars for hydraulic systems

Electronics:

- › Ultra fine wires from Sprint Metal

Architecture Building and Construction:

- › ACIDUR® 4362, UGIGRIP® stainless steel rebars
- › UGISHAPE® for architectural applications

Mechanical Engineering:

- › UGICHROM® hard chromium plated bars for piston rod applications
- › UGIMA®, NIRO-CUT® for improved machinability
- › UGIPLEX® for a full range of duplex grades

Oil & Gas:

- › ACIDUR® and UGI® range of hard and acid resistant steel (4418, 4542, 4442, 4501, 4410)
- › CORRODUR® 4006, 4021 corrosion resistant steel
- › MAGNADUR® 501, 601 nonmagnetic steel for multidirectional drilling
- › UGISHAPE® simple to highly complex shaped wires for filtration applications
- › UGIALLOY® nickel alloy welding wires

Food industry:

- › ACIDUR® 4404, ACIDUR® 4462, ACIDUR® 4521 for water management
- › ACIDUR® 4460, ACIDUR® 4462 for fishing industry

Marine:

- › Long bars for propeller shafts
- › PYRODUR® 4718 for marine valves

› Our steels satisfy the highest technical requirements such as extreme resistance to corrosion, mechanical load, high strength, strain values and very high thermal resistance.

Our stainless, acid and heat-resistant steel grades

» From 1 meter diameter forged bars to ultra fine wires of 13 microns, we offer more than 300 grades dedicated to the most specific applications. We are covering all the stainless steel families: austenitic, ferritic, martensitic and duplex grades including high machinability versions (UGIMA® and NIRO-CUT®), heat-resistant steel, creep-resistant steel, non-magnetic and magnetic steel.

» Thanks to our state-of-the-art Research and Development centers, we can also work in collaboration with our customers to develop new products for special steel needs.

| Material no. | EN Symbolic designation | AISI, ASTM |
|------------------------------------|-------------------------|------------|
| MARTENSITIC STAINLESS STEEL | | |
| 1.4003 | X2CrNi12 | |
| 1.4006 | X12Cr13 | 410 |
| 1.4005 | X12CrS13 | 416 |
| 1.4021 | X20Cr13 | 420 |
| 1.4024 | X15Cr13 | 410 |
| 1.4028 | X30Cr13 | 420 |
| 1.4029 | X29CrS13 | 420F |
| 1.4031 | X39Cr13 | 420C |
| 1.4034 | X46Cr13 | 420 |
| 1.4035 | X46CrS13 | 420F |
| 1.4037 | X65Cr13 | |
| 1.4120 | X20CrMo13 | |
| 1.4057 | X17CrNi16-2 | 431 |
| 1.4044 | X15CrNi17-3 | |
| 1.4418 | X4CrNiMo16-5-1 | |
| 1.4117 | X38CrMoV15 | |
| 1.4197 | X22CrNiMoS13-1* | |
| 1.4116 | X50CrMoV15 | |
| 1.4122 | X39CrMo17-1 | |
| 1.4125 | X105CrMo17 | 440C |
| 1.4903 | X10CrMoVNb9-1 | F9 |
| 1.4718 | X45CrSi9-3 | |
| 1.4731 | X40CrSiMo10-2* | |
| 1.4913 | X19CrMoNbVN11-1 | |
| 1.4922 | X20CrMoV11-1 | |
| 1.4923 | X22CrMoV12-1 | |

*Grades not defined in EN 10088

| Material no. | EN Symbolic designation | AISI, ASTM |
|--|-------------------------|------------|
| CHROMIUM FERRITIC STAINLESS STEEL | | |
| 1.4016 | X6Cr17 | 430 |
| 1.4511 | X3CrNb17 | |
| 1.4512 | X2CrTi12 | 409 |
| 1.4601 | X6CrNb12* | 409Cb |
| 1.4509 | X2CrTiNb18 | 441 |
| 1.4521 | X2CrMoTi18-2 | 443 / 444 |
| 1.4105 | X6CrMoS17 | 430F |
| 1.4104 | X14CrMoS17 | 430F |
| 1.4113 | X6CrMo17-1 | 434 |
| | X12CrS13+Si* | 416Si |
| 1.4105 | X6CrMoS17 | 430FR |
| 1.4106* | X2CrMoSiS18-2-1* | |
| 1.4114* | X6CrMoS19-2* | 434F |
| STRUCTURALLY HARDENED STAINLESS STEEL | | |
| 1.4313 | X3CrNiMo13-4 | F6NM |
| 1.4542 | X5CrNiCuNb16-4 | 630 |
| 1.4545 | X5CrNiCu15-5* | |
| 1.4548 | X5CrNiCu17-4* | 630 |
| 1.4980 | X6NiCrTiMoVB25-15-2 | 660 |

AUSTENITIC-FERRITIC / DUPLEX STAINLESS STEEL

| | | |
|--------|--------------------|-----|
| 1.4062 | X2CrNiN22-2 | |
| 1.4362 | X2CrNiN23-4 | |
| 1.4410 | X2CrNiMoN25-7-4 | F53 |
| 1.4460 | X3CrNiMoN27-5-2 | 329 |
| 1.4462 | X2CrNiMoN22-5-3 | F51 |
| 1.4501 | X2CrNiMoCuWN25-7-4 | F55 |
| 1.4507 | X2CrNiMoCuN25-6-3 | F59 |
| 1.4410 | X2CrNiMoN25-7-4 | F53 |

| Material no. | EN Symbolic designation | AISI, ASTM |
|-----------------------------------|-------------------------|------------|
| AUSTENITIC STAINLESS STEEL | | |
| 1.4301 | X5CrNi18-10 | 304 |
| 1.4307 | X2CrNi18-9 | 304L |
| 1.4306 | X2CrNi19-11 | 304L |
| 1.4311 | X2CrNiN18-10 | 304LN |
| 1.4310 | X10CrNi18-8 | 301 |
| 1.4305 | X8CrNiS18-9 | 303 |
| 1.4303 | X4CrNi18-12 | 305 |
| 1.4570 | X6CrNiCuS18-9-2 | |
| 1.4567 | X3CrNiCu18-9-4 | |
| 1.4541 | X6CrNiTi18-10 | 321 |
| 1.4550 | X6CrNiNb18-10 | 347 |

REFRACTORY AUSTENITIC STAINLESS STEEL

| | | |
|--------|----------------|-----------|
| 1.4828 | X15CrNiSi20-12 | 309Si |
| 1.4841 | X15CrNiSi25-21 | 310 / 314 |
| 1.4845 | X8CrNi25-21 | 310S |

REFRACTORY FERRITIC STAINLESS STEEL

| | | |
|--------|-------------|-----|
| 1.4713 | X10CrAlSi7 | |
| 1.4724 | X10CrAlSi13 | 405 |
| 1.4742 | X10CrAlSi18 | 430 |
| 1.4763 | X8Cr24* | 446 |

We have more than 300 grades in our offering, feel free to contact your local experts for any special requirements.

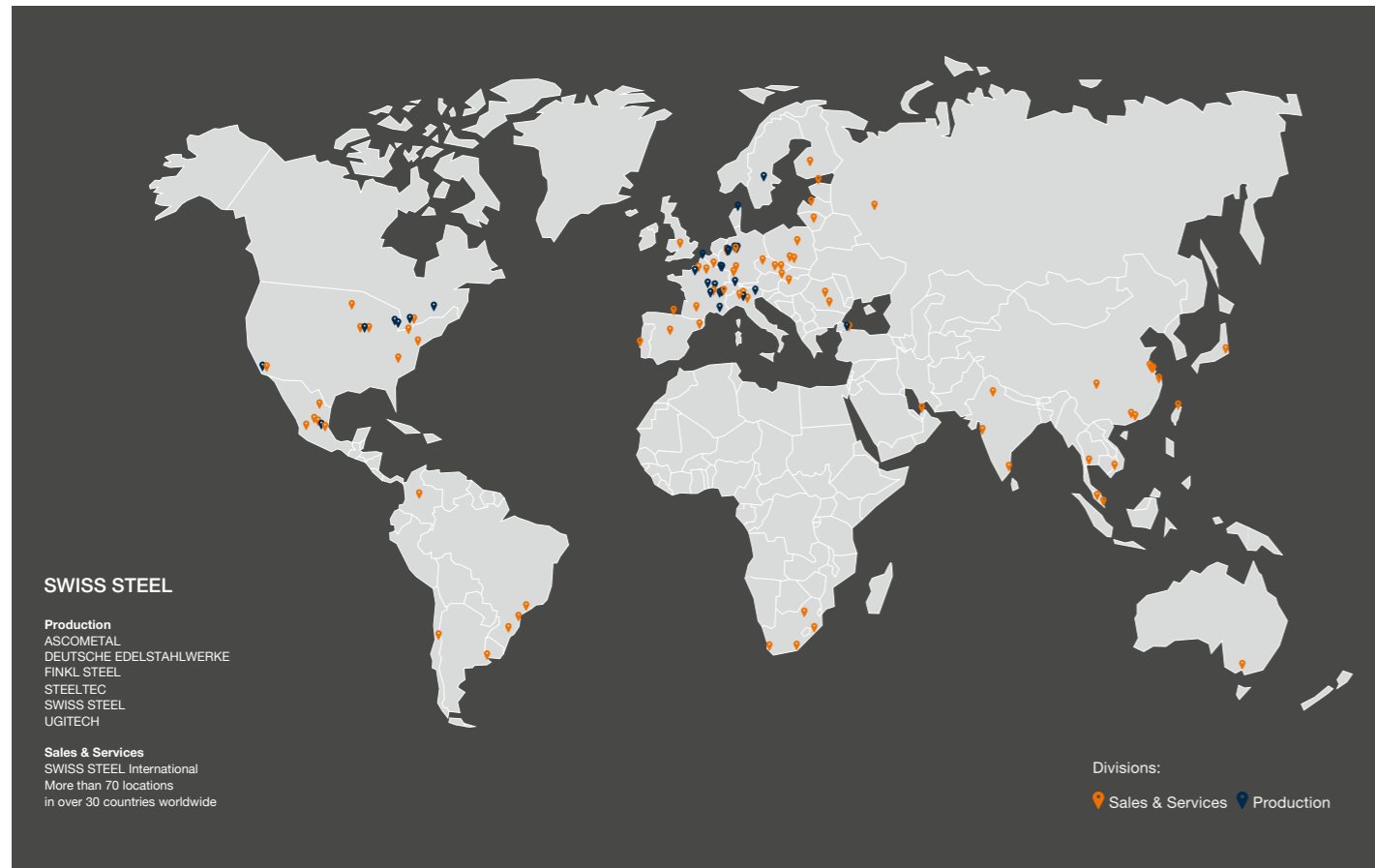
| Material no. | EN Symbolic designation | AISI, ASTM |
|---|-------------------------|------------|
| CHROMIUM-NICKEL-MOLYBDENE AUSTENITIC STAINLESS STEEL | | |
| 1.4401 | X5CrNiMo17-12-2 | 316 |
| 1.4404 | X2CrNiMo17-12-2 | 316L |
| 1.4406 | X2CrNiMo17-11-2 | 316LN |
| 1.4429 | X2CrNiMo17-13-3 | 316LN |
| 1.4436 | X3CrNiMo17-13-3 | 316 |
| 1.4439 | X2CrNiMoN17-13-5 | |
| 1.4435 | X2CrNiMo18-14-3 | 316L |
| 1.4578 | X3CrNiCuMo17-11-3-2 | |
| 1.4598 | X2CrNiMoCuS17-10-2 | |
| 1.4571 | X6CrNiMoTi17-12-2 | 316Ti |
| 1.3952 | X2CrNiMoN18-14-3* | |
| 1.3964 | X2CrNiMnMoNb21-16-5-3 | |
| 1.4539 | X1NiCrMoCu25-20-5 | 904L |
| 1.4529 | X1NiCrMoCuN25-20-7 | |
| 1.4466 | X2CrNiMoN25-22-2 | |
| 1.4909 | X2CrNiMoN17-12-2* | 316L |
| 1.4910 | X3CrNiMoBN17-13-3 | |
| 1.4441 | X2CrNiMo18-15-3 | 316LMV |

*Grades not defined in EN 10088

We provide a range of effective solutions in all dimensions

| Ingots, Continuous casting, Semi-finished products | Hot rolled bars | Wire rod/ Drawn wire | Bright steel | Forged products | Special products |
|---|--|---|---|--|---|
| <p>Ingots 1 - 58 t</p> <p>Continuous casting 138 mm 150 mm 205 mm 265 mm 475 x 340 mm</p> <p>Semi-finished products 50 - 320 mm, rising in 1 mm increments</p> | <p>7 - 250 mm 50 - 160 mm 3 - 60 mm</p> <p>Width: 80 - 510 mm Thickness: 24 - 160 mm Width/thickness ratio: 10:1 max</p> | <p>Wire rod 5 - 32 mm (5 - 13 mm rising in 0,5 mm increments/ 13 - 32 mm rising in 1 mm increments) 12,4 - 28 mm rising in 1 mm increments</p> <p>Drawn wire 0,013 - 22 mm Coils, spools, baskets, reels</p> <p>Profiles 1 - 60 mm² Coils, reels, straightened products</p> | <p>0,8 - 130 mm 2 - 55 mm 2 - 60 mm 2 - 18 mm</p> <p>2 x 1 - 100 x 40 mm</p> <p>Bright steel in bars of 2 to 130 mm Bright steel in coils of 0.8 to 22 mm</p> | <p>Open-die forgings, rotationally symmetrical forgings forged to shape on request up to 50 t single-piece weight 65 - 1100 mm 50 - 750 mm</p> <p>Single-piece weight up to 23 t</p> | <p>Drill collars, diameter up to 280 mm (round), length up to 10 mm</p> <p>Pre-machined, rotationally symmetrical forgings, forged to shape</p> |

Your local contact worldwide: 1400 employees - 70 locations - 5 continents - 30 countries



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