

Swiss Steel Group

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Available finishes

Semi-finished products

Billets

- 50 to 140mm
Length: 3 to 8m

Bars

- 1.5 to 130mm for the austenitics, super-austenitics and duplex 1.4462
1.5 to 120mm for the duplex (except 1.4462)

- 3 to 60mm for the austenitics and super-austenitics

*Not all diameter/length combinations are available. Please contact us.

*For the following grades, please contact us: 1.4438, XM19, 1.4439 and 1.4529.

Wire rod

- 5 to 32mm for austenitics and super-austenitics
5.5 to 32mm for duplex

- 12.4 to 28mm for austenitics and super-austenitics
Coils of approximately 1,000kg

*For the following grades, please contact us: 1.4362, 1.4507, 1.4439, 1.4529.

Drawn products

Wires

- 13 microns to 18mm; coils, spools, baskets

Profiles

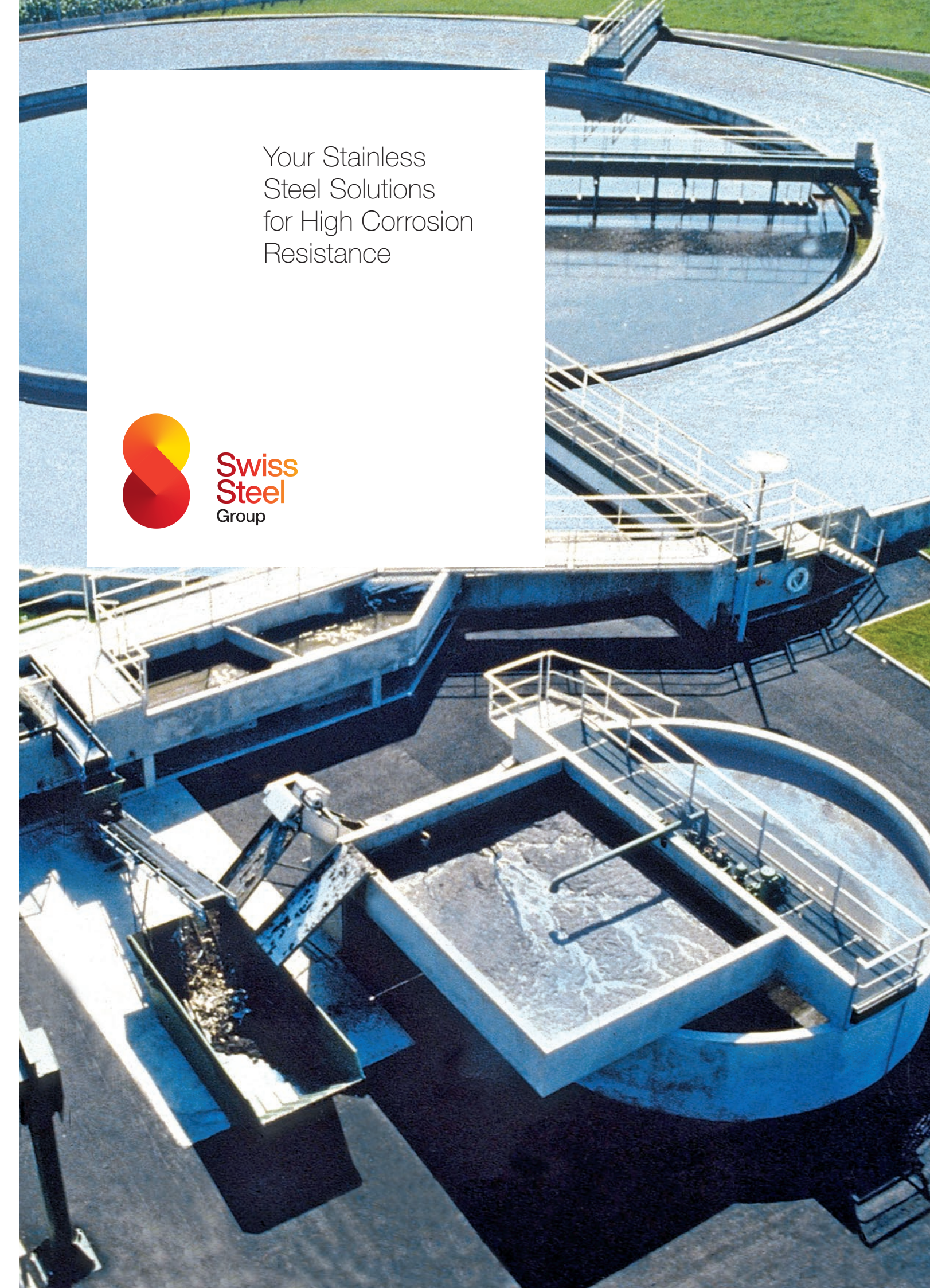
- sections from 2 to 70 mm²; coils, reels, straightened products

*For other requests, please contact us.

The information and data presented here in are typical or average values and are not a guarantee of maximum or minimum values. Only the information reported on our material certificates is to be considered as relevant.

Applications specifically suggested for material described here in are made for the purpose of illustration only to enable the reader to make its own evaluation and are not intended as warranties, either express or implied, of fitness for any purposes.

Villi® - www.imprimerie-villiere.com
Thuria - HRC_EN - 04-2023
D16032EN



Your Stainless Steel Solutions for High Corrosion Resistance



Grades	Standards			Typical chemical composition (%)													Typical mechanical characteristics Annealed condition at ambient temperature (20°C)			
	Description	EN reference	UNS reference	Other designations AISI, ASTM, etc.	C	Si	Mn	Ni	Cr	Mo	Cu	S	P	N	Other elements	PREN	Rm (MPa)	Rp0.2 (MPa)	A (%)	KV (J)
Duplex																				
UGI® 4062	1.4062	S32202			≤ 0.03	0.4	1.8	2.8	23.0	0.1	-	≤ 0.010	≤ 0.030	0.18	-	25	720	470	45	250
UGI® 4362	1.4362	S32304			≤ 0.03	0.4	1.0	4.2	22.3	0.3	-	≤ 0.011	≤ 0.030	0.12	-	26	700	450	45	320
UGIMA® 4460	1.4460	S32900	329		≤ 0.03	0.4	0.8	4.6	26.3	1.5	-	≤ 0.020	≤ 0.035	0.10	-	33	670	520	30	120
UGI® 4462	1.4462	S31803	F51 - F60		≤ 0.03	0.4	1.0	5.3	22.3	2.7	-	≤ 0.011	≤ 0.030	0.15	-	34	780	550	40	320
UGI® 4507	1.4507	S32550			≤ 0.03	0.4	1.0	6.3	25.3	3.5	1.7	≤ 0.011	≤ 0.023	0.23	-	40	820	600	35	300
UGI® 4410	1.4410	S32750	F53		≤ 0.03	0.4	1.0	6.8	26.0	3.5	0.4	≤ 0.011	≤ 0.023	0.25	-	41	820	520	45	300
Austenitics																				
UGIMA® 4404	1.4404	S31603	316L		≤ 0.03	0.5	1.4	10.2	16.7	2.1	-	≤ 0.025	≤ 0.040	0.04	-	25	580	250	60	240
UGIMA® 4571	1.4571	S31635	316Ti		≤ 0.03	0.5	1.6	11.2	16.8	2.1	-	≤ 0.025	≤ 0.040	0.02	Ti ≥ 5x(C+N)	25	580	250	60	200
UGIMA® 4435	1.4435	S31603	316LMo		≤ 0.03	0.5	1.6	12.6	17.2	2.6	-	≤ 0.020	≤ 0.040	0.04	-	27	560	250	60	240
UGI® 317L	1.4438	S31700	317L		≤ 0.03	0.4	1.6	14.6	19.0	3.6	-	≤ 0.010	≤ 0.025	0.05	-	32	600	250	45	220
UGI® 209	-	S20910	XM19		≤ 0.035	0.6	5.0	12.0	21.5	2.2	-	≤ 0.010	≤ 0.040	0.30	V=0.2; Nb=0.12	34	820	540	40	300
UGI® 4439	1.4439	~S31726	317LMN		≤ 0.03	0.5	1.2	12.6	16.7	4.3	-	≤ 0.015	≤ 0.030	0.18	-	34	700	400	40	220
Super austenitics																				
UGI® 4539	1.4539	N08904	904L		0.015	0.6	1.2	24.2	19.3	4.2	1.5	≤ 0.010	≤ 0.025	0.05	-	34	600	250	50	350
UGI® 4529	1.4529	N08926	926		0.015	0.3	0.8	24.6	20.3	6.2	1.0	≤ 0.010	≤ 0.020	0.20	-	42	740	400	50	300

Fields of application

For many applications, conventional stainless steels fully satisfy requirements. However, a wide range of industrial activities and aggressive environments often lead to the recommendation of stainless steels with high chromium, molybdenum and nitrogen contents, which are major corrosion-protective elements.

and molybdenum content), make them extremely attractive for industries traditionally consuming highly alloyed grades:

- **Petroleum industry**
Natural gas extraction
- **Chemical industry**
Cellulose and paper pulp industry
- **Sea water desalination**

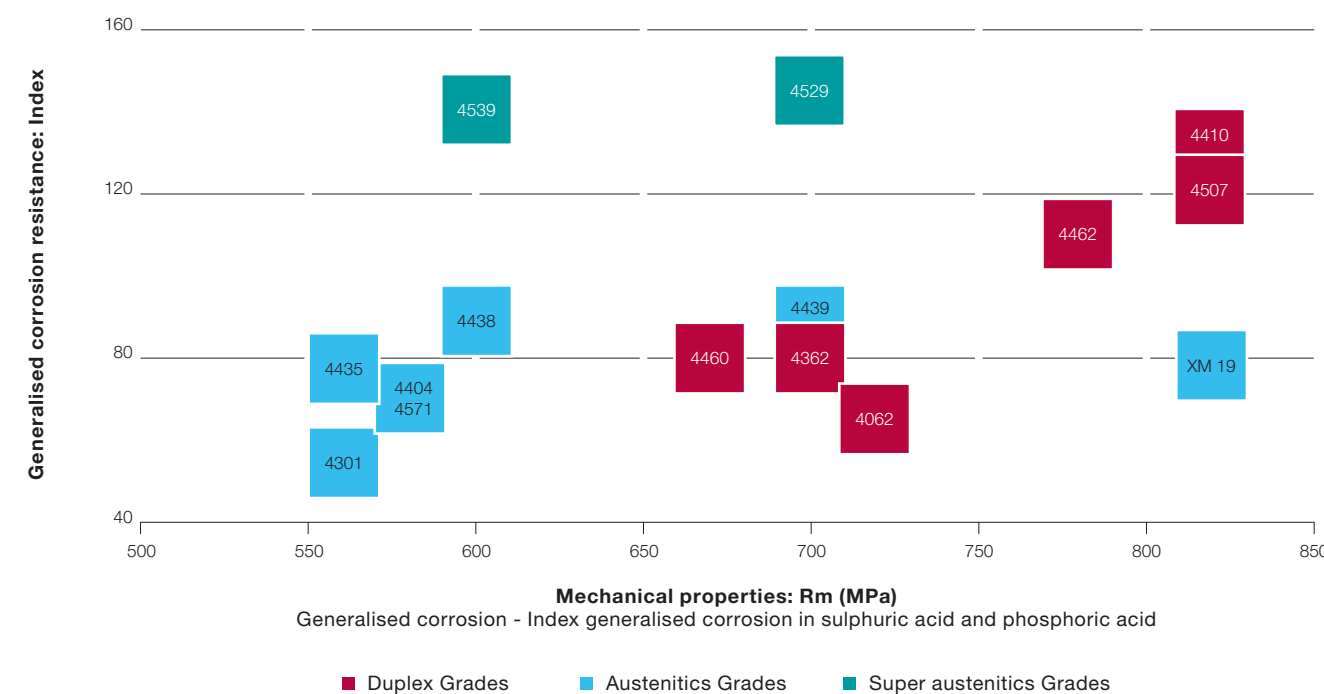
and also industries that usually employ austenitic stainless steels and are looking for an alternative to these grades that are so dependent on the high and volatile cost of alloying elements:

- **Food processing**
- **Water treatment**
- **Thalassotherapy – Thermal spas**
- **Building industry**

Aware of the growing demand for stainless steels with improved corrosion resistance and guaranteed availability, Ugitech has decided to offer an appropriate solution: austeno-ferritic or duplex stainless steels.

Their remarkable usage properties, combining high mechanical characteristics with an often exceptional corrosion resistance, along with their reasonable cost (linked to their low nickel

Generalised corrosion resistance



Resistance to pitting corrosion



Crevice corrosion resistance

