

## 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 mm<sup>2</sup>; coils, reels, straightened products

\*For other requests, please contact us.



### Ugitech SA France

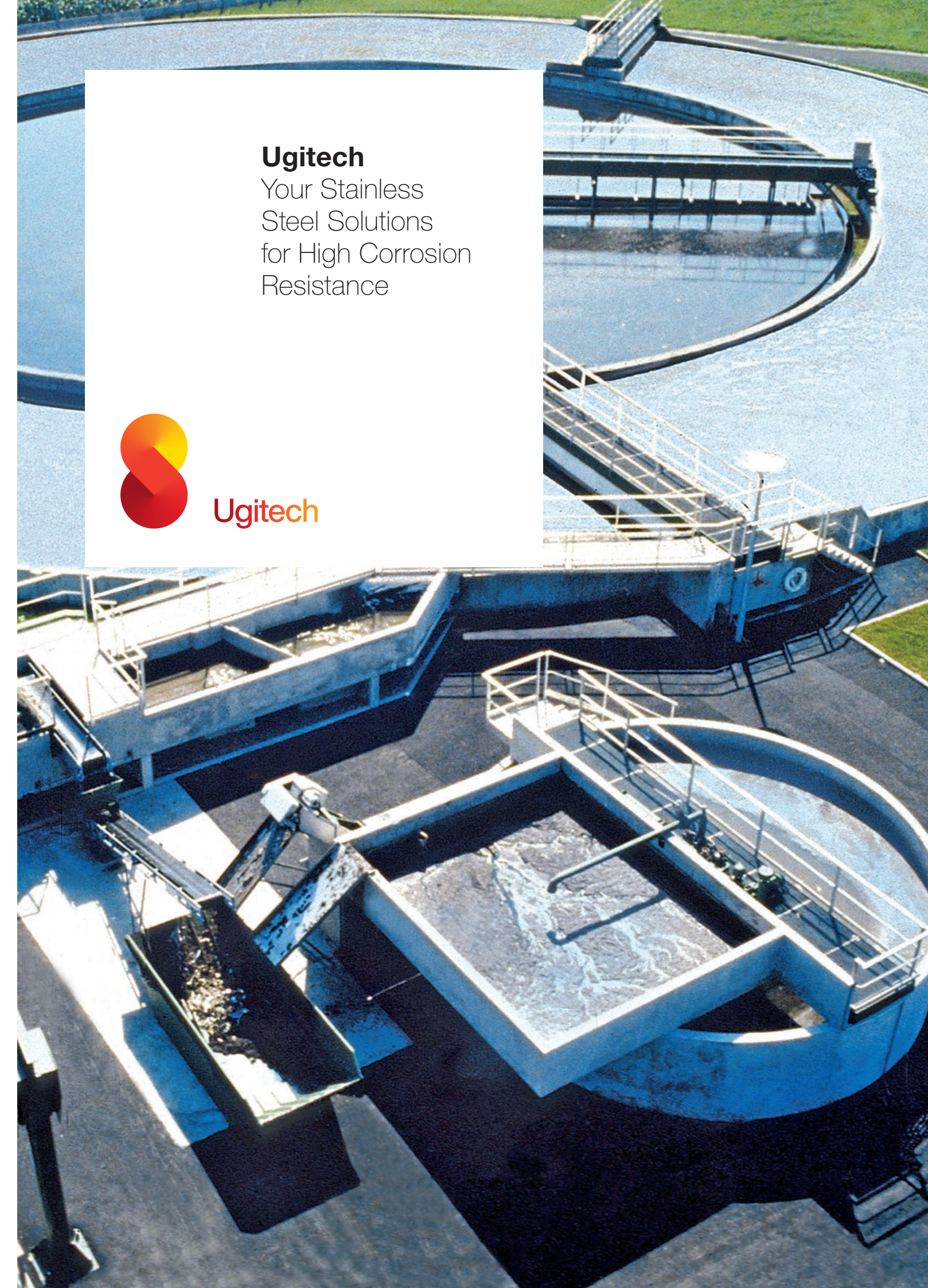
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The information and data presented here in are typical or average values and are not a guarantee of maximum or minimum values. Only the information reported on our material certificates is to be considered as relevant.

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.

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**Ugitech**  
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)
<b>Duplex</b>																				
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
<b>Austenitics</b>																				
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
<b>Super austenitics</b>																				
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.

to their low nickel 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**

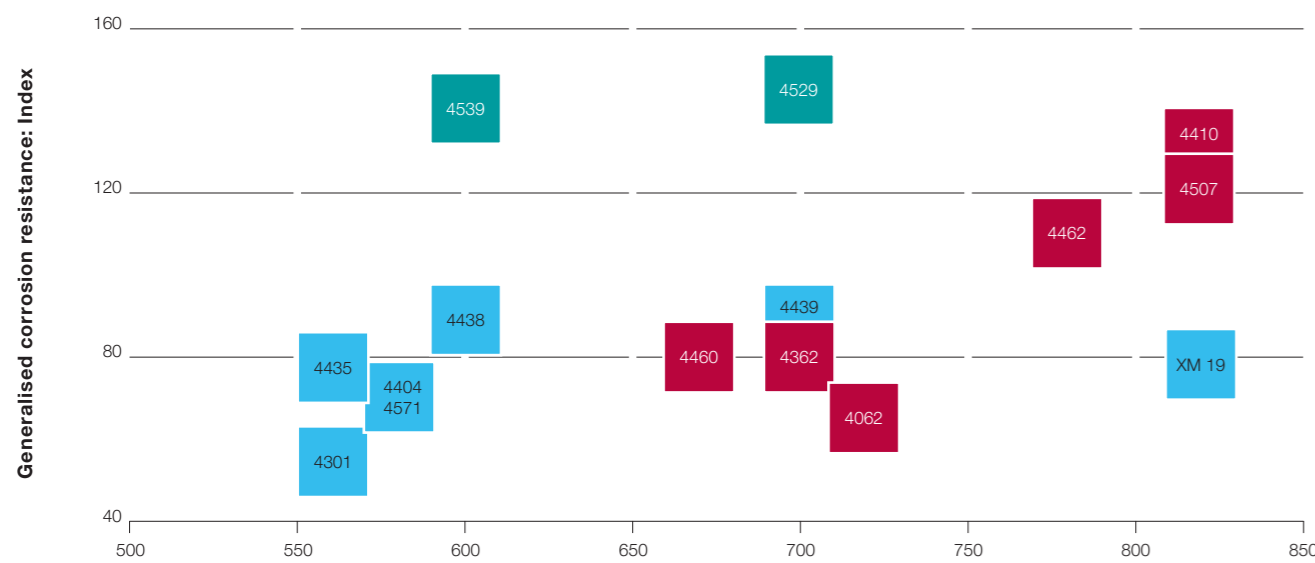
and also industries that usually employ austenitic stainless steels and are looking for an alternative to these grades that are so dependent on the high and volatile cost of alloying elements:

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.

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

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

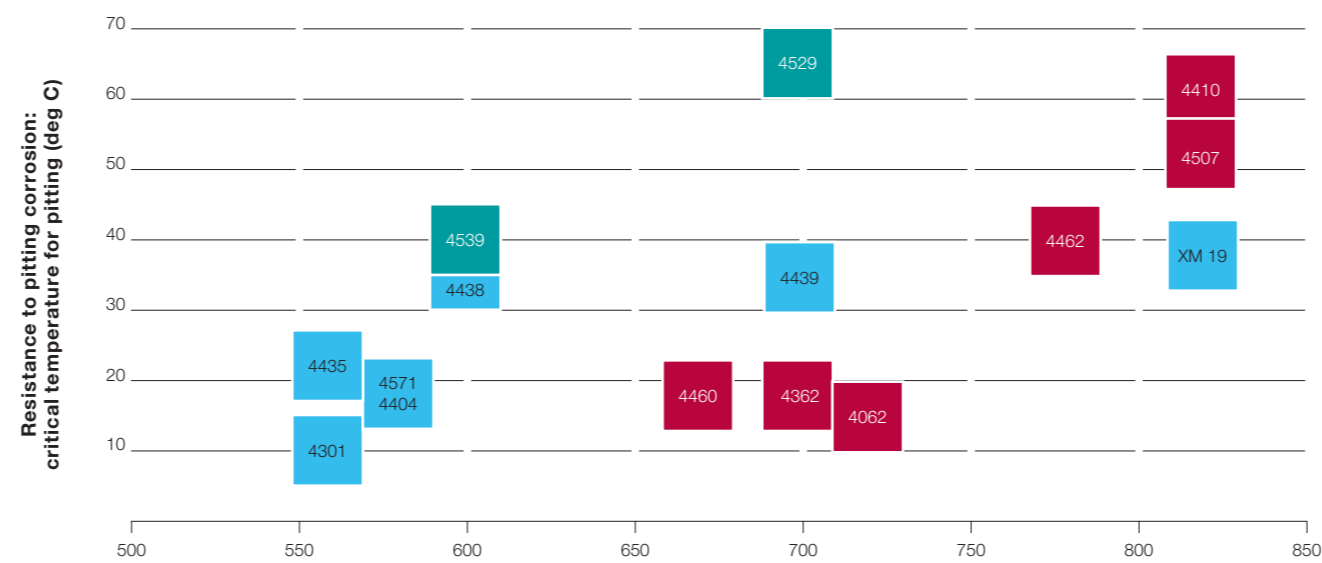
### Generalised corrosion resistance



Mechanical properties: Rm (MPa)  
Generalised corrosion - Index generalised corrosion in sulphuric acid and phosphoric acid

■ Duplex Grades ■ Austenitics Grades ■ Super austenitics Grades

### Resistance to pitting corrosion



Mechanical properties: Rm (MPa)  
Pitting corrosion - Type testing using ASTM G48 in ferric chloride solution – indicative values

■ Duplex Grades ■ Austenitics Grades ■ Super austenitics Grades

### Crevice corrosion resistance



Mechanical properties: Rm (MPa)  
Crevice corrosion - Type testing using ASTM G48 in ferric chloride solution – indicative values

■ Duplex Grades ■ Austenitics Grades ■ Super austenitics Grades