

Stainless steel
solutions for the
aerospace industry



**Swiss
Steel**
Group



Ugitech – The benchmark stainless steel for aerospace applications

References that make all the difference

Airbus, Ariane Group, Collins, Daher, Dassault, Eaton, Howmet, IAI, Liebherr, Lisi, PCC, Safran, SKF.

Ugitech is a European Member and leader of ASD-STAN (Association des industries aéronautiques et de défense de l'Europe - Normalisation) and BNAE (Bureau de Normalisation de l'Aéronautique et de l'Espace).

Ugitech is a member of the Advisory Board of SAE International.

Ugitech is certified EN 9100 and EN 9120.



What we can offer

Bars

Rolled, turned, polished, drawn, ground, strain-hardened.

A wide range of sizes

- Billets: 50 to 205mm
- Bars: 1.5 to 350mm
- Flat bars: 23 x 7mm
- Flat bars: 350 x 120mm

- Other shapes, diameters and dimensions: contact us.
- Remelted (ESR) and non-remelted products according to specification.

Wire rod/Drawn wires

- Wire rod: 5 to 32mm
- Wire rod: 12.4 to 28mm
- Drawn wires: 0.013 to 12mm
- Drawn wires: Profiles: section from 2 to 70 mm
- Lock wire: 0.5 to 1.2 mm

Matt or bright finish, soap-coated (spring applications), coated with SPRICOAT/ MOS2 (cold heading applications).

Stock & services

A stock that meets the requirements of the aerospace market

- a wide range of grades and dimensions
- short delivery times (extended geographical area, Europe and Overseas)
- personalized and dedicated customer storage

A range of complementary services and benefits:

- Marking (ink, laser)
- Heat treatments
- Warehouse
- Special packaging
- Chamfering

A partnership in the choice of materials:

- Consulting services (machining, corrosion...)
- Elaboration of specifications
- Co-development of new grades
- Equipment and resources for R&D (SEM, 3D roughness, material deformation by simulation, etc.).

Factory production

Minimum quantity for ex-factory orders from 800kg

Grades

Nickel base

Drawn wires and bars < 15.0mm

HQ 400 - UNS N04400	2.4360
HT 600 - UNS N06600	2.4816
HT 625 - UNS N06625	2.4856
HT X750 - UNS N07750	2.4669
HT 718 - UNS N07718	2.4668
HT 90 - UNS N07090	2.4632
HT 80 - UNS N07080	2.4952 / 2.4631

Cobalt base

Drawn wires and bars < 15.0mm

HT 605 - UNS R50605	2.4964
KC35N - UNS R30035	2.4999
WASPALOY - UNS N07001	2.4654

Stainless steels

DIN EN	AISI	UNS	Brand names	Usual names	Standards or Specifications ²
Austenitics					
1.4544	321	S32100	UGI® 4541Q	Z10CrNi18-11 Z6CrNi18-10 X6CrNiTi18 X6CrNiTi18-10 X10CrNiTi18-11	AIR 9160C AMS 5645 AMS-QQ-S-763 ASNA 3139 ASNA 3202 ASTM A479/A479M BLFF 248101 BLFG 248101 CCT 297 MA-625-12 DGQT 1.3.0.0005 DMD 276-22 HMDM 0065 NCT15-143-43 NF EN 3487 SM16602 WL 1.4544.9 BS 2 S129
1.4307 ¹	304L	S30400 S30403	UGI® 4307Q UGIPURE® 4307Q UGIMA® 4307 UGIMA® 4307HM	Z2CrNi18-10 X1CrNi18-10 X2CrNi19-11 X2CrNi18-9	AIR 9160C AMS 5639 AMS 5647 AMS-QQ-S-763 ASNA 3366 Ma 0605-12 ASTM A479/A479M ASTM A276/A276M CCT 312 DGQT 1.3.0.0005 DMD 0200-22 NCT15-143-03 NF EN 2465 SM16601 WL 1.4314.7
1.4404 ¹ / 1.4909	316L	S31600 S31603	UGIPURE® 4909 UGIMA® 4404HM	X2CrNiMo17-12-2 X5CrNiMo17-12-2	AMS 5648 AMS 5653 AMS-QQ-S-763 ASTM A479/A479M ASTM A276/A276M CCT 312 DGQT 1.3.0.0005 DMD 0200-22 NCT15-143-03 NF EN 2465 SM16601 WL 1.4314.7
1.4550	347	S 34700	UGI® 4550Q	X6CrNiNb18-10	AMS 5646 WL 1.4546.9 BS 2 S130
1.4944	660	S66286	UGI® 4944	X6NiCrTiMoV26-15 E-Z6NCT25 Z5NCTDV25-15B X6NiCrTiMoVB25-15-2	ASTM A638/A638M Type 2 ASTM A453/A453M Type B DMD 274-22 FDA35570 HMDM 0014 NFEN10269 NF EN4315 SM16706
1.4310	302	S30200	UGI® S4310-6	X10CrNi18-8	AMS 5636 AMS 5637 AMS-QQ-S-763
1.4305 ¹	303	S30300	UGI® 4305 UGIMA® 4305 UGIMA® 4305HM	X8CrNi18-9	AMS 5640
1.4845	310	S31000	UGI® 4845	X8CrNi25-21	AMS-QQ-S-763
Martensitics					
1.4057	431	S43100	UGI® 4057FG UGI® 4057 AIR ³	X15CrNi17-3 X15CrNi17-03 Z15CN17-03	AIR 9160C ASNA 3138 ASNA 3299 ASTM A479/A479M CCT 314 DMD 0280-20 NCT15-142-03 NCT17-142-06 NF EN 3490 NCT10-140-01MD SM16503 WL 1.4044.6
1.4542	630	S17400	UGI® 4542Q UGI® 17-4PH AIR ³	17-4 PH X5CrNiCu17-4 Z5NCU17	AMS 5643 ASTM A564/A564M BLFG 219101 DMD 229-20 HMDM 0090 HMDM 0063 NCT17-144-12 NCT17-144-13 NCT17-144-14 NCT17-144-10 NF EN 3160 NF EN 3161
1.4418			UGI® 4418Q UGI® 4418 AIR ³	X5CrNiMo16-5 X4CrNiMo16-5-1 Z8CND17-04 Z6CND16-05-01	AIR 9160C ASNA 6099 ASNA 6095 CCT 244 E/DA/T 999815 NCT15-142-12/14/15 NCT10-140-01MD NF EN 4628 NF EN 4631 SM16703 Ma-0660-12
17-4PH ESR	630	S17400	UGI® 17-4PH AIR ³	X5CrNiCu17-4	AMS 5622 type 2 AMS 5643 BLFE219101 HMDM 0063 WL 1.4548.4 WL1.4548.9
15-5PH ESR	630	S15500	UGI® 15-5PH AIR ³	X5CrNiCu15-5 E-Z5CNU15	AMS 5659 Type 2 DMD 261-20 HMDM 0060 NCT15-144-03 / 01 NCT17-144-02 NF EN 2815 NF EN 2817 NF EN 2821 WL 1.4545.4 WL 1.4545.9 ASTM A564/A564M
1.4028	420 420B	S42000 S42010	UGI® 4028 UGI® 4028 AIR ³	Z30C13 X30Cr13	AIR 9160C AMS 5655 CCT 211 NCT10-140-01MD NCT15-147-01 NCT15-147-02 DMD 216-20
1.4913			UGI® 4913	X19CrMoNbVN11-1	EN 10269 EN 10302
1.4923			UGIPURE® 4923	X22CrMoV12-1	EN 10269 EN 10302
1.4938 / 1.4939			UGIPURE® 4938 UGIPURE® 4939	X12CrNiMoV12-3	EN 10269 EN 10302 WL 1.4939
1.4006	410	S41000	UGI® 4006A	X12Cr13	AMS 5613

1_ A high machinability UGIMA® version is available for application connectors

2_ Other specifications on requirement

3_ xxxAIR is the new name for all our grades dedicated to the aerospace industry



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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 herein 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.