

Ugitech

Stainless steel
solutions for the
aerospace industry



Ugitech



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 aérospatiales 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
 3 to 55mm
- Flat bars: 23 x 7mm
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
 12.4 to 28mm
- Drawn wires:  0.013 to 12mm
 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 | Z10CNT18-11 Z6CNT18-10 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 HMMD 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 | Z2CN18-10 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 | SM16604 NCT15-143-81 |
| 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 HMMD 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 | X8CrNiS18-9 | 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 Z5CNU17 | AMS 5643 ASTM A564/A564M BLFG 219101 | DMD 229-20 HMMD 0090 HMMD 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 HMMD 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 | NCT15-147-03 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



Ugitech SA

France

Avenue Paul Girod

CS90100

73403 UGINE Cedex

Tel.: + 33 (0)4 79 89 30 30

Fax: + 33 (0)4 79 89 34 34

Email: aerospace@ugitech.com

www.ugitech.com

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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.