



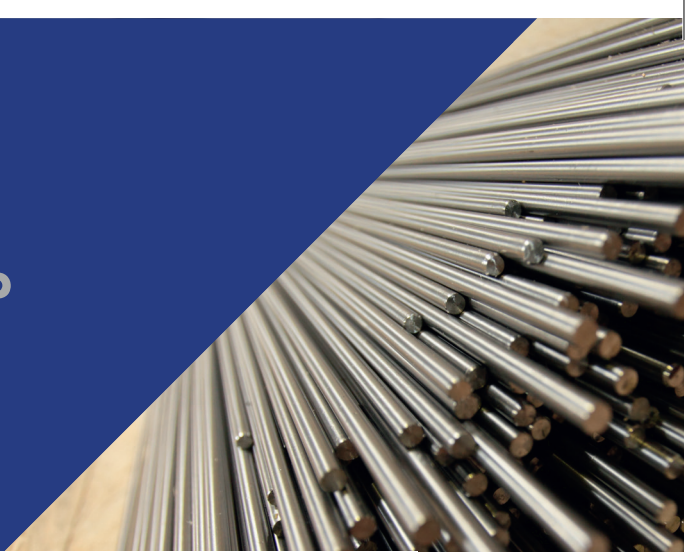
STAINLESS GROUP

High performance metallic alloys and services

STAINLESS STEELS | TITANIUM AND TITANIUM
ALLOYS | COPPER BERYLLIUM, TOUGHMET®
AND COPPER ALLOYS | COBALT ALLOYS |
NICKEL-BASED ALLOYS | METAL STRIPS |
METALLIC POWDERS

Medical
Aerospace
Microtechnology
Motor sports
Energy
Industry

stainless.eu



For over 90 years, the STAINLESS Group has been providing innovative and sustainable support to industries in the most demanding markets. As an international group, it is committed to offering its customers the highest quality products and services.

Worldwide distribution of high performance metallic alloys and a broad coverage of its markets give the Stainless Group all the advantages of a reliable and long-lasting partner.

With its proven technical and logistical expertise, the Stainless group is now referenced by the biggest international buyers.

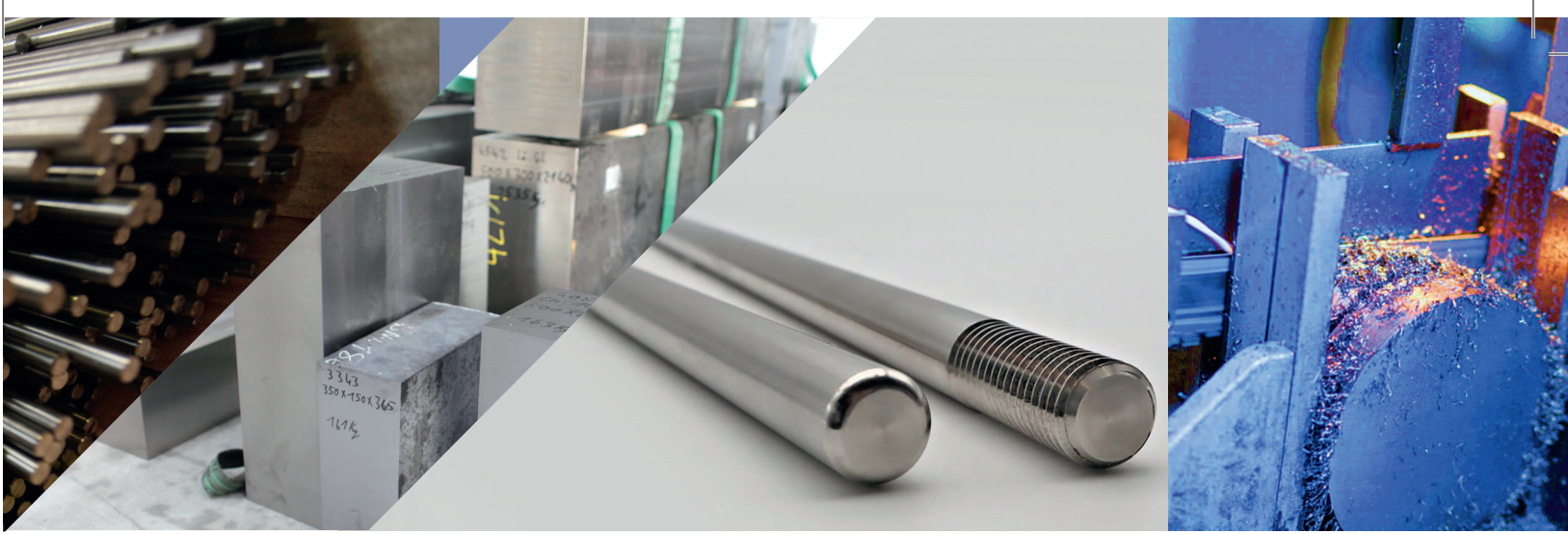
STAINLESS Group Certifications



- ISO 9001
- ISO 13485
- Inclusion of FDA requirements (21 CFR 820)
- EN/AS 9120
- ISO 14001
- AEO certification for fast customs clearance
- GRAMS AIRBUS



- ISO 9001
- ISO 13485
- ISO 14001



A range of complementary services to support our customers' needs

As a true partner of the world's leading manufacturers, we bring our added value to our industrial customers by:

- Recommending the most appropriate high-performance materials, thanks to our comprehensive product range and technical expertise.
- Processing these materials using our wide range of technologies and processes
 - Custom cutting of blocks, tubes, bars, flats
 - Turning, milling, chamfering
 - Custom slitting
 - Customised flats
 - Straightness, roughness and circularity measurements
 - Chemical analysis
 - Product identification
 - Engraving, marking

The STAINLESS training institute offers training courses for professionals (from beginners to experts)

Do you need to provide your teams general metallurgy training? Training in technical document reading? Training to understand standards and specifications? Mechanical characterisation?

Thanks to our knowledge of the markets, the products but also the producers and their processes, we support our national and international customers by offering them customized technical training.

More information: stainless.eu



Activity registration number: 27250344925





HIGH PERFORMANCE METALLIC ALLOYS FOR **MEDICAL AND SURGICAL** MARKETS

- ISO 9001
- ISO 13485
- ISO 14001
- AEO certification* for fast customs clearance

Our certifications are proof of our commitments and professionalism, whether in terms of quality, safety or the environment.

- Optimal responsiveness
- Adapted stock specific to the medical sector making it possible to deliver on available stocks, whatever the volume
- Quality and traceability
- Additional services (custom cutting – chamfering – customised stock management, ...)
- Technical support
- International logistics organisation for fast and effective local service

Custom cutting

Automatic machine reserved for medical cuts.

Technical possibilities:

Sawing of bars and tubes of an ext. diam from 6mm to 320 mm

Flat bar sawing (LxW): 10 x 8 mm- 350 x 320 mm

Cutting accuracy: as per DIN ISO 2768

Small, medium and large series – All medical grades



* STAINLESS France certifications



The main biocompatible medical metal grades for orthopaedic, trauma and vascular prostheses and implants



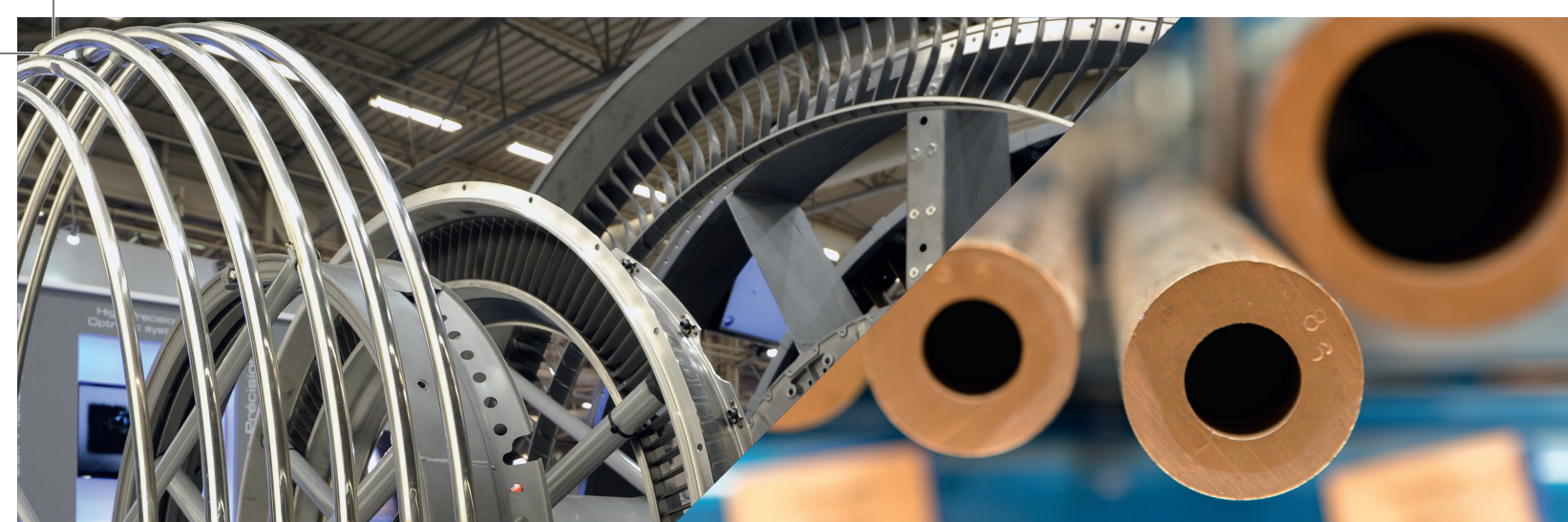
Other grades available in stock or to order.

Contact us info@stainless.eu

GRADES	INTERNATIONAL STANDARDS	AVAILABLE SHAPES				
		Round bar	Sheet	Flat bars	Powder	Wire
Titanium and titanium alloys						
Ti 6Al-4V ELI Grade 23 3.7165	ASTM F136 - ASTM F1472 - ISO 5832-3	✓	✓	✓	✓	✓
Ti Grade 2	ASTM F67 - ISO 5832-2	✓	✓	✓	✓	✓
Ti Grade 4	ASTM F67 - ISO 5832-2	✓	✓	✓	✓	✓
Ti Grade 4 CW	ASTM F67 - ISO 5832-2	✓				
TiAl6Nb7	ASTM F1295 - ISO 5832-11	✓				
Stainless steels						
1.4441 - 316LVM - S31673	ASTM F138 - ASTM F139 - ISO 5832-1	✓	✓	✓	✓	✓
1.4472 / M30NW® - S31675	ASTM F1586 - ISO 5832-9	✓		✓		
BIODUR 108®	ASTM F2229	✓				
Cobalt-based alloys						
M64BC® - BIODUR CCM® 2.4979	ASTMF1537 - ISO 5832-12	✓			✓	
L605, XSH® - HAYNES 25®	ASTM F90 - ISO 5832-5	✓	✓			
MP35N®	ASTM F562 - ISO 5832-6	✓				✓
PHYNOX-ELGILOY®	ASTM F1058 - ISO 5832-7	✓				✓
Tantalum						
Tantalum UNS R 05200	ASTM F560	✓	✓			✓

The main medical metallic grades for medical instrumentation

GRADES	INTERNATIONAL STANDARDS	AVAILABLE SHAPES				
		Round bar	Sheet	Flat bars	Powder	Wire
Martensitic for quenching/tempering (type QT)						
1.4057 - 431	ASTM F899 - NF S94-090	✓		✓		
1.4028 - 420B	ASTM F899 - NF S94-090	✓		✓		
1.4021 - 420A	ASTM F899 - NF S94-090	✓	✓	✓		
1.4123 (X15TN®) - 420Mod	ASTM F899 - NF S94-090	✓		✓		
1.4034 - 420C	ASTM F899 - NF S94-090	✓	✓	✓		
1.4125 - 440C	ASTM F899 - NF S94-090	✓		✓		
1.4112 - 440B	ASTM F899 - NF S94-090	✓	✓	✓		
Martensitic with structural hardening (PH type)						
1.4542 - 17-4PH - AISI630	ASTM F899 - NF S94-090	✓	✓	✓	✓	
Custom® 455 - MX455 - 1.4543 - XM16	ASTM F899 - NF S94-090	✓		✓		
Custom® 465 - 1.4614	ASTM F899	✓		✓		
Austenitic						
316L - 1.4404	ASTM F899 - NF S94-090	✓	✓	✓	✓	
316 - 1.4401	ASTM F899 - NF S94-090	✓		✓		
304 - 1.4301	ASTM F899 - NF S94-090	✓	✓	✓		
304L - 1.4307	ASTM F899 - NF S94-090	✓		✓		
303 - 1.4305	ASTM F899 - NF S94-090	✓		✓		
Nitronic®60 - S21800	ASTM F899	✓				



VERY HIGH PERFORMANCE METALLIC ALLOYS FOR AEROSPACE

- ISO 9001
- EN/AS 9120*
- ISO 14001
- AEO certification*
for fast customs
clearance

Our certifications are proof of our commitments and professionalism, whether in terms of quality, safety or the environment.

- Quick response to your requests
- A dedicated stock for aerospace market
- Technical advice and training
- Quick technical and commercial response to support customers' new developments

Custom cutting

Numeric control multi-bar sawing machine.

Technical possibilities:

Sawing of bars and tubes of an ext. diam from 25 mm to 440 mm

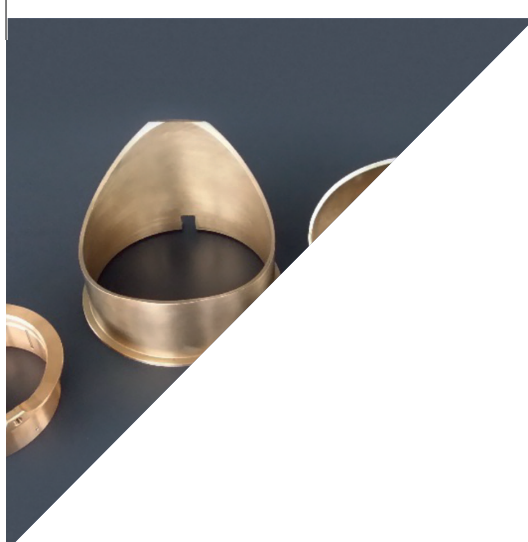
Flat bar sawing (LxW): 20 x 20 mm- 440 x 440 mm

Cutting accuracy: as per DIN ISO 2768

Small to very large series – All grades



* STAINLESS France certifications



The main very high performance aerospace materials

GRADES	INTERNATIONAL STANDARDS	AVAILABLE SHAPES						
		Round bar	Tubes	Flat bars	Sheet	Strips	Powder	Wire
Copper Beryllium - CuBe2								
Alloy 25 - C17200	AMS 4533 - AMS 4534 - AMS 4535 - AMS 4650 - AMS 4651 - AMS 4530 - AMS 4532 - AMS 4725	✓	✓	✓		✓		✓
ToughMet® 3 - CuNi15Sn8								
ToughMet® 3 AT 110 - C72900	AMS 4696 - AMS 4598 - AMS 4595	✓	✓	✓				
ToughMet® 3 TS 160 - C72900	AMS 4597	✓						
Copper alloys : Cupro Nickel, Aluminum Bronze								
CuAl10Ni5Fe3 - UA10N - C63000	NFL 14705 - AMS 4640 (extruded)	✓	✓					
CuAl10Ni5Fe5 - C63020	AMS 4590	✓	✓					
CuAl10Ni5Fe3 - C95510	AMS 4880 (casted)	✓						
CuAl11Ni5Fe5 - UA11N - C95520	NFL 14706 - AMS 4881 - DTD 197A - LAT 1-9063	✓						
CuZn19Al6 - UZ19A6 - C67000	NFL 14707 - ASNA 3402 - NCT 10-631-11	✓	✓					
CuNi14Al2 - UN14A2 - C70400	NFL 14702	✓						
Titanium alloys								
Ti 6Al-4V - Grade 5 - 3.7165 - R56400	AMS 4928 -AMS 4911 - AMS 4967 - AMS 4963 - AMS 4965 -	✓		✓	✓	✓	✓	✓
Ti Cp Grade 4 - 3.7065 - R50700	AMS 4921 - AMS 4901	✓		✓	✓	✓	✓	✓
Ti Al6-2Sn-4Zr-2Mo - R54620	AMS 4975	✓						
Nickel-based alloys								
Inconel 718 - 2.4668 - UNS N07718	AMS 5662 - AMS 5663	✓		✓	✓	✓	✓	✓
Inconel 625 - 2.4856 - UNS N06625	AMS 5666 - AMS 5599	✓		✓	✓	✓	✓	✓
Stainless steels								
17-4 PH - 1.4542 - S17400	AMS 5643	✓		✓	✓		✓	✓
15-5 PH - 1.4545 - S15500	AMS 5658 - AMS 5862	✓		✓	✓		✓	
Custom455® - 1.4543 - S45500	AMS 5617	✓		✓	✓			
Custom465® - 1.4614 - S46500	AMS 5936	✓		✓	✓			
A286 - 1.4980 - S66286	AMS 5731 - AMS 5732	✓		✓	✓			✓
Metallic matrix composites								
SupremEX® 225XE NEW		✓			✓			
SupremEX® 620XF NEW		✓			✓			
SupremEX® 640XA NEW		✓			✓			



ToughMet® by MATERION

ToughMet® is a beryllium-free copper-nickel-tin alloy with excellent properties.

PROPERTIES OF TOUGHMET®:

- high hardness and strength (similar to titanium)
- a low coefficient of friction (similar to bronze with addition of lead)
- high resistance to wear (similar to steel)
- no cold welding (fretting)
- high resistance to corrosion
- excellent machining
- no lead

This alloy can be an alternative to CuBe2 as it combines high mechanical properties, high resistance to friction, seizure, wear and corrosion.

STAINLESS has in stock several formats or states that will allow you to best satisfy your needs in terms of implementation.

AERONAUTICAL APPLICATIONS:

Highly loaded joint rings, screws, ball joint elements, hinge parts.

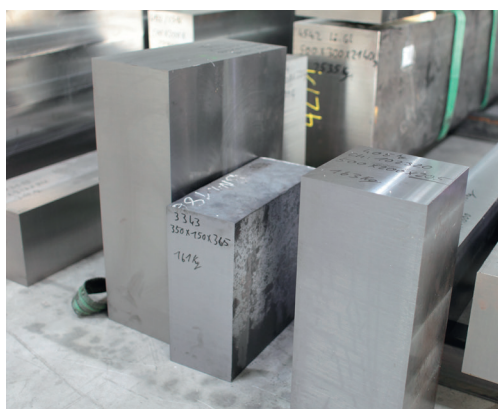
Other grades available in stock or to order.
Contact us info@stainless.eu

METALLURGICAL SOLUTIONS FOR ALL INDUSTRIAL APPLICATIONS

ENERGY, OIL & GAS, BATTERIES, ARMAMENT, MARINE & YACHTING, WATCHMAKING, PACKAGING

- ISO 9001
- ISO 14001
- AEO certification* for fast customs clearance

- Optimal responsiveness
- A stock adapted to industry
- Help in the choice of materials best suited to the constraints



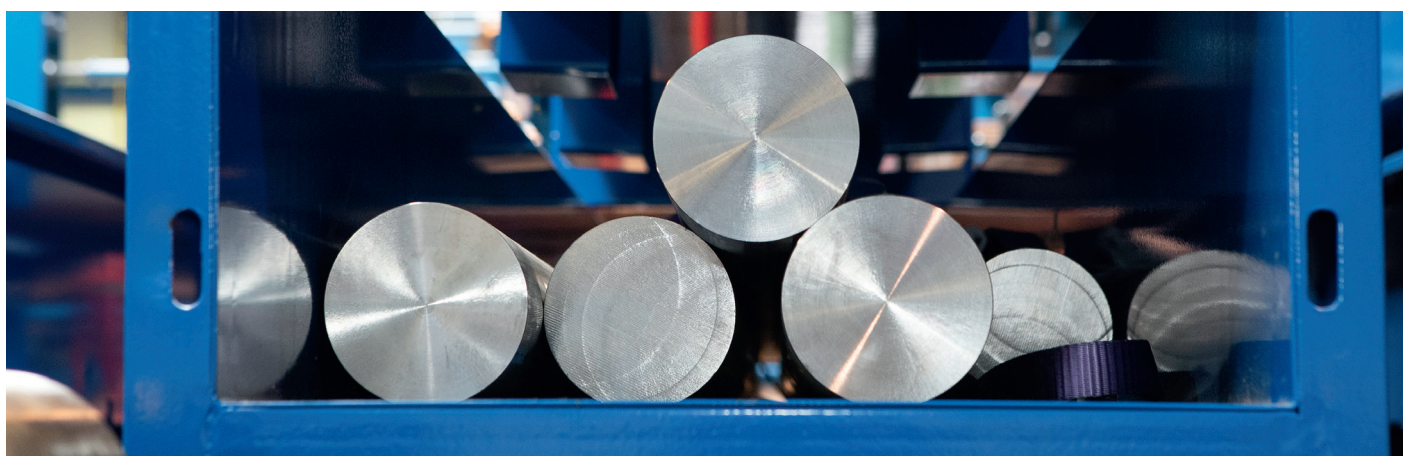
Oil & Gas
Copper beryllium
ToughMet®3
Stainless steels

Batteries
Stainless steels
Copper strips
Multi-metal strips

Marine & Yachting
Industrial Titanium
Stainless steels

Mechanical industry, Packaging
Stainless steels

Automobile
Titanium
Copper Beryllium
ToughMet®
Nimonic®
HSS
Inconel®



* STAINLESS France certifications



HIGH PERFORMANCE ALLOYS AND SPECIAL STEELS FOR YOUR MOTOR SPORT APPLICATIONS

F1, WRC, RACING, KART, RALLY, MOTORCYCLE...

- ISO 9001
- ISO 14001
- AEO certification* for fast customs clearance

- Over 90 years of experience in high performance metal alloys
- Quick response to your requests
- Technical advice and training
- Development of specific alloys



Metallurgical solutions for all your demanding parts

Crankshafts: Connecting rods, Bearings

Valvetrain: Camshafts, Valves, Springs

Power train: Gears, Shafts, Bearings

Chassis: Fasteners, Torsion bars

GRADES	INTERNATIONAL STANDARDS
Titanium and titanium alloys	
Ti 6Al-4V - Ti GRADE 5 - 3.7165	AMS 4928, AMS 4911, AMS 4967- AMS 4963
Ti6242	AMS 4975
Ti6246	AMS 4981
Stainless steels	
17-4PH - 1.4542	AMS 5643 - AMS 5622
1.4123 - X40CrMoVN16-2	
Maraging 300 - 1.2709	
15-5 PH - 1.4545	AMS 2658 - AMS 5862
Custom® 465 - 1.4614	AMS 5936
Nickel-based alloys	
NIMONIC 80A® - 2.4952	ASTM B637
NIMONIC 90® - 2.4632	AMS 5829
INCONEL 625 - 2.4856	AMS 5666
INCONEL 718 - 2.4668	AMS 5662 - AMS 5663
Copper and copper alloys	
CuBe2- Alloy 25 - C 17200	AMS 4533 - AMS 4534 - AMS 4535 - ASTM B196
CuNi15Sn8 - ToughMet3® - C72900	AMS 4696 - AMS 5698 - AMS 4595 - AMS 4597
CuNi2Be - Alloy 3 - C17510	ASTM B441
Special steels	
40CDV20 - 40CrMoV20	
20NCD13 - 20NiCrMo13	
30NCD16 - 30NiCrMo16	
35NCD16 - 35NiCrMo16	
32CDV13 - 32CrMoV12-9	AMS 6481
Metallic matrix composites	
SupremEX® 225XE NEW	
SupremEX® 620XF NEW	
SupremEX® 640XA NEW	

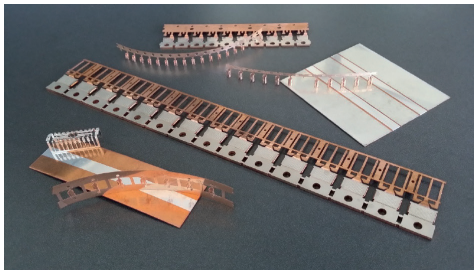
* STAINLESS France certifications

METAL STRIPS AND FREE-CUTTING BARS FOR THE MICROTECHNOLOGY

BATTERIES, TELECOMS - DATACOM, ELECTRONICS, AUTOMOTIVE, AEROSPACE, MEDICAL...

- ISO 9001
- ISO 13485
- EN/AS 9120*
- ISO 14001
- AEO certification* for fast customs clearance

- Optimal responsiveness
- Manufacturing to specification with no minimum quantity
- Custom slitting
- Technical advice and training



MULTI-METAL STRIPS THE DIFFERENT PROCESSES

- Rolling mill process
- Electron beam welding process
- Electroplating process
- Milling or planing process
- Solder coating process

GRADES

Copper Beryllium, Nickel Beryllium, ToughMet® and QMET® by MATERION

CuBe2 - C17200 - Alloy 25

CuBe2Pb - C17300 - Alloy M25

CuNi1Be0,3 - C17460 - Alloy 60, 390

CuCo0.5Be0,3 - C17410 - Alloy 174

CuNi2Be - C17510 - Alloy 3

NiBe2 - N03360 - Alloy 360

CuNi15Sn8 - C72900 - ToughMet®3

CuNi9Sn6 - C72700 - ToughMet®2

QMet 200® **NEW**

QMet 300® **NEW**

Superalloys

INCONEL 718

INCONEL 625

INCONEL 600

Titanium and titanium alloys

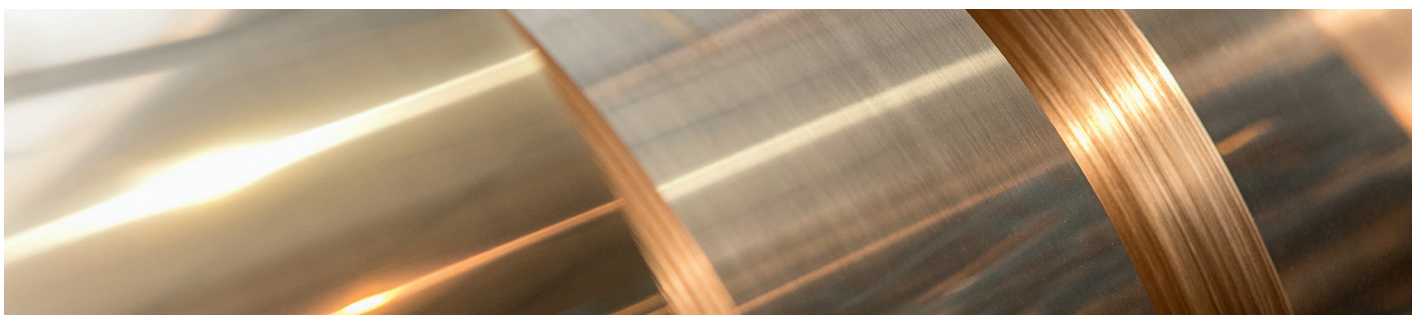
T35 - Ti GRADE 1

T40 - Ti GRADE 2

T55 - Ti GRADE 3

T60 - Ti GRADE 4

Ti.3Al.2.5V - CuNi1Be0,3



* STAINLESS France certifications



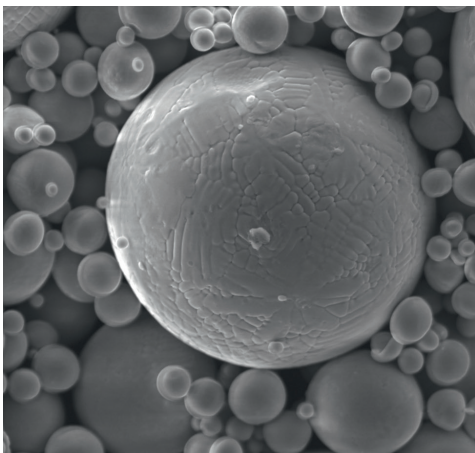
SUPPLIER OF METALLIC POWDERS FOR ADDITIVE MANUFACTURING (3D)

- ISO 9001
- ISO 13485
- EN/AS 9120*
- ISO 14001
- AEO certification* for fast customs clearance

Metal additive manufacturing is growing fast because it makes it possible to produce custom-made parts with complex shapes and geometries.

STAINLESS France supplies fine metal powders for additive manufacturing for demanding markets such as aerospace, medical, automotive and motor sports. Many grades of Titanium, stainless steel, cobalt based, copper based, etc. powders from the world's biggest producers are available in stock or production.

With over 90 years of metallurgy expertise, STAINLESS France can help you choose the right powder for your needs. The powder chemistry, its grading or the choice of producer are all parameters that we can adapt to your specific requirements.



GRADES

AERONAUTICS / SPACE SECTOR

- TiAl6V4 - Grade 5
- INCONEL 718
- INCONEL 625
- MARAGING 300
- 15-5PH
- AlSi10Mg

MEDICAL SECTOR

- TiAl6V4ELI - Grade 23
- TI CP GRADE 1, 2, 4
- ALLOY 1 ASTM F1537 (COBALT CHROME)
- 17-4PH - 1.4542
- 316L - 1.4404

AUTOMOTIVE / MOTORSPORT SECTOR

- TiAl6V4 - Grade 5
- INCONEL 718
- INCONEL 625
- MARAGING 300
- AlSi10Mg
- CuAl10FeNi5
- 17-4PH
- 15-5PH

* STAINLESS France certifications



CLOSE TO YOU, EVERYWHERE IN THE WORLD



STAINLESS FRANCE

4 rue Thalès
25410 Dannemarie-sur-Crête FRANCE
Tel: + 33 (0)3 81 48 57 40
info@stainless.eu

stainless.eu

STAINLESS FRÜCHTL GmbH

Zeppelinstraße 120
D-73730 Esslingen am Neckar DEUTSCHLAND
Phone: +49 (0)711931881-0
info@stainless-fruechtel.de

stainless-fruechtel.de

