

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.

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: S 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

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

STAINLESS FRÜCHTL

- ISO 9001
- ISO 13485 (in the process of certification)
- ISO 14001

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



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

GRADES

anium and Ti 6Al-4V ELI Grade

Ti Grade 2 Ti Grade 4 Ti Grade 4 CW TiAl6Nb7

Stainless steels

1.4441 - 316LVM - S31 1.4472 / M30NW[®]-BIODUR 108®

Cobalt-based alloy: M64BC[®] - BIODUR CO

L605, XSH® - HAYNES MP35N® PHYNOX-ELGILOY®

intalum Tantalum UNS R 05200

GF

004055		AVAILABLE SHAPES				
GRADES	INTERNATIONAL STANDARDS	Roud bar	Sheet	Flat bars	Powder	Wire
			Ø	\square		8
Martensitic for quenching/tempering (ty	pe 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	~				

Mo

1.4 Cus Cus

Au 316 316 304 304 303 Nit

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

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, ...)
- S 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 certification



Other grades available in stock or to order.

Contact us info@stainless.eu



- ISO 9001

- ISO 13485*

- ISO 14001

clearance

- AEO certification*

for fast customs



INTERNATIONAL STANDARDS ASTM F136 - ASTM F1472 - ISO 5832-3	Roud bar	Sheet	Flat bars	Powder	Wire
ASTM F136 - ASTM F1472 - ISO 5832-3					Î
ASTM F136 - ASTM F1472 - ISO 5832-3		_			
ASTM F136 - ASTM F1472 - ISO 5832-3					
	~	~	~	~	~
ASTM F67 - ISO 5832-2	~	~	~	~	~
ASTM F67 - ISO 5832-2	~	~	~	~	~
ASTM F67 - ISO 5832-2	~				
ASTM F1295 -ISO 5832-11	~				
ASTM F138 - ASTM F139 - ISO 5832-1	~	~	~	~	~
ASTM F1586 - ISO 5832-9	~		 		
ASTM F2229	~				
ASTME1537 ISO 5832 12	~			~	
				•	
		•			
ASTM F562 - ISO 5832-6	~				~
ASTM F1058 - ISO 5832-7	~				~
ASTM F560	~	~			~
	ASTM F67 - ISO 5832-2 ASTM F67 - ISO 5832-2 ASTM F1295 -ISO 5832-11 ASTM F138 - ASTM F139 - ISO 5832-1 ASTM F1586 - ISO 5832-9 ASTM F2229 ASTM F1537 - ISO 5832-12 ASTM F90 - ISO 5832-5 ASTM F562 - ISO 5832-6 ASTM F1058 - ISO 5832-7	ASTM F67 - ISO 5832-2 ASTM F67 - ISO 5832-2 ASTM F1295 -ISO 5832-1 ASTM F138 - ASTM F139 - ISO 5832-1 ASTM F1586 - ISO 5832-9 ASTM F1586 - ISO 5832-9 ASTM F1537 - ISO 5832-12 ASTM F90 - ISO 5832-5 ASTM F562 - ISO 5832-6 ASTM F1058 - ISO 5832-7	ASTM F67 - ISO 5832-2 ASTM F67 - ISO 5832-2 ASTM F1295 - ISO 5832-1 ASTM F138 - ASTM F139 - ISO 5832-1 ASTM F1586 - ISO 5832-9 ASTM F1586 - ISO 5832-9 ASTM F1537 - ISO 5832-9 ASTM F1537 - ISO 5832-12 ASTM F90 - ISO 5832-5 ASTM F90 - ISO 5832-5 ASTM F562 - ISO 5832-6 ASTM F1058 - ISO 5832-7	ASTM F67 - ISO 5832-2 ASTM F67 - ISO 5832-2 ASTM F1295 - ISO 5832-11 ASTM F138 - ASTM F139 - ISO 5832-1 ASTM F138 - ASTM F139 - ISO 5832-1 ASTM F1586 - ISO 5832-9 ASTM F1586 - ISO 5832-9 ASTM F1537 - ISO 5832-9 ASTM F2229 ASTM F1058 - ISO 5832-12 ASTM F90 - ISO 5832-5 ASTM F562 - ISO 5832-6 ASTM F1058 - ISO 5832-7 ASTM F1058 - ISO 5832-7 ASTM F1058 - ISO 5832-7 ASTM F1058 - ISO 5832-7 ASTM F1058 - ISO 5832-7	ASTM F67 - ISO 5832-2 ASTM F67 - ISO 5832-2 ASTM F1295 -ISO 5832-11 ASTM F138 - ASTM F139 - ISO 5832-1 ASTM F138 - ASTM F139 - ISO 5832-1 ASTM F1586 - ISO 5832-9 ASTM F1586 - ISO 5832-9 ASTM F1537 - ISO 5832-9 ASTM F1557 - ISO 5832-12 ASTM F90 - ISO 5832-5 ASTM F562 - ISO 5832-6 ASTM F1058 - ISO 5832-7 C

The main medical metallic grades for medical instrumentation

The main very high performance aerospace materials

GRADES

Copper Beryllium

Alloy 25 - C17200

ToughMet® 3 - CuNi1

ToughMet® 3 AT 110 - 0

ToughMet® 3 TS 160 - C7

Copper alloys : Cupro

CuAl10Ni5Fe3 - UA10

CuAl10Ni5Fe5 - C630 CuAl10Ni5Fe3 - C955

CuAl11Ni5Fe5 - UA11N

CuZn19Al6 - UZ19A6

CuNi14Al2 - UN14A2

Titanium alloys

Ti 6Al-4V - Grade 5 - 3. R56400

Ti Cp Grade 4 - 3.7065 Ti Al6-2Sn-4Zr-2Mo -

Nickel-based alloys Inconel 718 - 2.4668 -

UNS N07718 Inconel 625 - 2.4856 UNS N06625 ToughMet[®] is a beryllium-free copper-nickel-tin

Stainless steels 17-4 PH - 1.4542 - S17

15-5 PH - 1.4545 - S15 Custom455® - 1.4543 Custom465® - 1.4614 A286 - 1.4980 - S662

Metallic matrix compos

SupremEX® 640XA

Contact us info@stainless.eu

VERY HIGH PERFORMANCE METALLIC ALLOYS FOR **AEROSPACE**

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
- S 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







- ISO 9001

- ISO 14001

clearance

- EN/AS 9120*

- AEO certification*

for fast customs

SupremEX[®] 225XE N SupremEX® 620XF

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

ToughMet[®] by MATERION

- high hardness and strength (similar to titanium)

- a low coefficient of friction (similar to bronze

- high resistance to wear (similar to steel)

alloy with excellent properties.

with addition of lead)

- no cold welding (fretting)

- excellent machining

– no lead

- high resistance to corrosion

PROPERTIES OF TOUGHMET®:

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.

	INTERNATIONAL STANDARDS	Paud hav	Tubas	AVAIL Flat bars	ABLE SH	IAPES Strips	Powder	Wire
							rowder	
P ₂ 2		65556/	&⁄		\$		<u> </u>	8
Be2	AMS 4533 - AMS 4534 -							
	AMS 4535 - AMS 4650 -	~	~	~		~		~
	AMS 4651 - AMS 4530 - AMS 4532 - AMS 4725							
5Sn8								
C72900	AMS 4696 - AMS 4598 -							
	AMS 4595	~	~	~				
272900	AMS 4597	~						
Nickel, Alumin	um Bronze							
0N - C63000	NFL 14705 - AMS 4640 (extruded)	~	~					
020	AMS 4590	~	~					
510	AMS 4880 (casted)	~						
N - C95520	NFL 14706 - AMS 4881 - DTD 197A - LAT 1-9063	~						
- C67000	NFL 14707 - ASNA 3402 - NCT 10-631-11	~	~					
- C70400	NFL 14702	~						
	AMS 4928 -AMS 4911 -							
3.7165 -	AMS 4967 - AMS 4963 - AMS 4965 -	~		~	~	~	~	~
5 - R50700	AMS 4921 - AMS 4901	~		~	~	~	~	~
R54620	AMS 4975	~						
	AMS 5662 - AMS 5663							
	AM3 3002 - AM3 3003	~		×	~	~	~	~
-	AMS 5666 - AMS 5599	~		~	~	~	~	~
7400	AMS 5643	~		~	~		~	~
5500	AMS 5658 - AMS 5862	~		~	~		~	
- \$45500	AMS 5617	~		~	~			
- \$46500	AMS 5936	~		~	~			
286	AMS 5731 - AMS 5732	~		~	~			~
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METALLURGICAL SOLUTIONS FOR ALL INDUSTRIAL **APPLICATIONS**

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

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



- ISO 9001

- ISO 14001

clearance

- AEO certification*

for fast customs



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



- ISO 9001

- ISO 14001

clearance

- AEO certification*

for fast customs

Metallurgical solutions for all your

Crankshafts: Connecting rods, Bearings Valvetrain: Camshafts, Valves, Springs Power train: Gears, Shafts, Bearings Chassis: Fasteners, Torsion bars

demanding parts

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- Alliage 25 - C 17200	AMS 4533 - AMS 4534 - AMS 4535 - ASTM B196
CuNi15Sn8 - ToughMet3® - C72900	AMS 4696 - AMS 5698 - AMS 4595 - AMS 4597
CuNi2Be - Alliage 3 - C17510	ASTM B441
Special steels 40CDV20 - 40CrMoV20	
20NCD13 - 20NiCrMo13 30NCD16 - 30NiCrMo16	
35NCD16 - 35NiCrMo16	
32CDV13 - 32CrMoV12-9	AMS 6481
32CD ¥ 13 - 32CHWOY 12-9	AIVI3 0401
Metallic matrix composites	
SupremEX® 225XE NEW	
SupremEX® 620XF NEW	
SupremEX® 640XA NEW	

HIGH PERFORMANCE ALLOYS AND SPECIAL STEELS FOR YOUR **MOTOR SPORT** APPLICATIONS

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

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

Optimal responsiveness

METAL STRIPS AND FREE-CUTTING BARS FOR THE MICROTECHNOLOGY

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

- Optimal responsiveness
- Manufacturing to specification with no minimum quantity
- Custom slitting

GRADES

Technical advice and training





- ISO 9001

- ISO 13485*

- ISO 14001

clearance

- EN/AS 9120*

- AEO certification*

for fast customs

MULTI-METAL STRIPS THE DIFFERENT PROCESSES

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

Copper Beryllium, Nickel Beryllium, ToughMet® and QMET® by MATERION
CuBe2 - C17200 - Alliage 25
CuBe2Pb - C17300 - Alliage M25
CuNi1Be0,3 - C17460 - Alliage 60 et 390
CuCo0.5Be0,3 - C17410 - Alliage 174
CuNi2Be - C17510 - Alliage 3
NiBe2 - N03360 - Alliage 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



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

SUPPLIER OF METALLIC **POWDERS** FOR **ADDITIVE MANUFACTURING (3D)**

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

TiAl6V4 - Grade 5

316L - 1.4404

INCONEL 718 INCONEL 625 MARAGING 300 AlSi10Mg CuAl10FeNi5 17-4PH



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

AERONAUTICS / SPACE SECTOR TiAl6V4 - Grade 5 ALLOY 1 ASTM F1537 (COBALT CHROME)

AUTOMOTIVE / MOTORSPORT SECTOR

* STAINLESS France certifications



CLOSE TO YOU, EVERYWHERE IN THE WORLD



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