

**Ti/Titanium clad Cu/copper anode flat (rectangle) and round bars and rods with material Ti Gr1 or Gr2 and copper T2 or TU2 for anode electroplating and PCB and electrolysis industry**

Clad material: Ti acc. to No. 37025 or 37025 or 3.7055,, ASTM B 265 Grade 1

Core material: Cu acc. to E-Cu58, CU-ETP, CW004A, UNS No. C 11000  
acc. to SE-Cu, CU-HCP, CW021A, UNS No.C 10300

Dimensions:

Form	Dimension in mm	Dimension in inch
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Round	6,35 - 78mm	1/4" - 3"
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Rectangle-flat	up to 20 x 120 mm	up to 0.8" x 4"
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**Zr/Zirconium clad Cu/copper flat (rectangle) and round bars and rods with material Zr702 and copper T2 or TU2**

Clad material: Zr702 acc. to ASTM B523/ASME SB523 DIN 2462 D3/T3 or closer

Core material: Cu acc. to E-Cu58, CU-ETP, CW004A, UNS No. C 11000  
acc. to SE-Cu, CU-HCP, CW021A, UNS No.C 10300

Dimensions:

Form	Dimension in mm	Dimension in inch
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Round	6,35 - 78mm	1/4" - 3"
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Rectangle-flat	up to 20 x 120 mm	up to 0.8" x4"
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**Stainless-steel/Steel clad Cu/copper flat (rectangle) and round bars and rods by compound extrusion presses for electroplating and electrolysis metal**

Clad material: Stainless-steel 316L 304

Core material: Cu acc. to E-Cu58, CU-ETP, CW004A, UNS No.C 11000  
acc. to SE-Cu, CU-HCP, CW021A, UNS No.C 10300

Dimensions:

Form	Dimension in mm	Dimension in inch
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Round	6,35 - 78mm	1/4" - 3"
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Rectangle-flat	up to 20 x 120 mm	up to 0.8" x 4"
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**Ti clad copper sheets and plates with material Ti Gr1 or Gr2 and copper T2 or TU2 by explosion cladding for two layers or three layers**

Clad material: Ti acc. to No. 37025 or 37025 or 3.7055,, ASTM B 265 Grade 1

Core material: Cu acc. to E-Cu58, CU-ETP, CW004A, UNS No. C 11000  
acc. to SE-Cu, CU-HCP, CW021A, UNS No.C 10300

Thickness: custom-made size available

Dimension: custom-made size available

Process: explosive cladding

**Titanium clad copper round wires and coils with OD3 OD4 OD5 OD6 OD6.35 with material Gr1 or Gr2 and copper T2 or TU2**

Clad material: Ti acc. to No. 37025 or 37025 or 3.7055,, ASTM B 265 Grade 1  
Core material: Cu acc. to E-Cu58, CU-ETP, CW004A, UNS No. C 11000  
acc. to SE-Cu, CU-HCP, CW021A, UNS No. C 10300  
Dimensions: 2 – 6.35 mm 0,078" – 1/4"

**Titanium clad copper round pipes and tubes with material Gr1 or Gr2 and copper T2 or TU2**

Clad material: Ti acc. to No. 37025 or 37025 or 3.7055,, ASTM B 265 Grade 1  
Core material: Cu acc. to E-Cu58, CU-ETP, CW004A, UNS No. C 11000  
acc. to SE-Cu, CU-HCP, CW021A, UNS No.C 10300

Dimensions:

Form	Dimension in mm	Dimension in inch
Round	OD10-OD100	0.4"-4"

**Ti/Titanium clad Cu/copper clad steel round and flat (rectangle) bars and rods for three layers by explosion cladding**

Clad material: Ti acc. to No. 37025 or 37025 or 3.7055,, ASTM B 265 Grade 1  
Core material: Cu acc. to E-Cu58, CU-ETP, CW004A, UNS No.C 11000  
acc. to SE-Cu, CU-HCP, CW021A, UNS No.C 10300

Stainless-steel 316L 304

Form	Dimension in mm	Dimension in inch
Round	6,35 - 78mm	1/4" - 3"
Rectangle-flat	up to 20 x 120 mm	up to 0.8" x 4"

**Plantinized titanium anodes for electroplating, water treatment, and other electronic applications**

**Ti Content (%):99.7% Gr1**

Material: Gr1 titanium as substrate  
Coating: platinum coating  
Coating Thickness: 0-20µm/  
Dimension: custom-made size available  
Temperature: <60°C  
PH Value: 1-12

**Ruthenium oxide coated titanium anodes for electroplating, water treatment, and other electronic applications**

**Ti Content (%):99.7% Gr1**

Material: Gr1 titanium as substrate  
Coating: Ru oxide coating  
Coating Thickness: 0-20µm/  
Dimension: custom-made size available  
Temperature: <60°C  
PH Value: 1-12

Ruthenium coated Titanium Anodes are a type of mixed-metal oxide (MMO) anode used in

electroplating, water treatment, and other electronic applications. Ruthenium coated Titanium Anodes are generally immediately available in most volumes and can be fabricated in forms such as sheet, mesh, perforated plate, rod, or wire. American Elements can produce most materials in high purity and ultra high purity?(up to 99.99999%) forms and follows applicable ASTM testing standards

**Ir-Ta coated titanium anodes for electroplating, water treatment, and other electronic applications**

**Ti Content (%): 99.7% Gr1**

Material: Gr1 titanium as substrate

Coating: Iridium-Tantalum oxide coating

Coating Thickness: 0-20µm/

Shape: rod type

Dimension: custom-made size available

Current density: ≤2000A/M2

Temperature: <60°C

PH Value: 1-12

**Iridium oxide coated titanium anodes for electroplating, water treatment, and other electronic applications**

**Ti Content (%): 99.7% Gr1**

Material: Gr1 titanium as substrate

Coating: IrO+TaO coating

Coating Thickness: 0-20µm/

Current density: ≤2000A/M2

Temperature: <60°C

PH Value: 1-12

**Niobium/Nb and Nickel/Ni and Tantalum /Ta clad copper/Cu round or rectangle-flat bars and rods with material Nb and copper T2 and TU2**

Clad material: Nb, Ni, Ta

Core material: Cu acc. to E-Cu58, CU-ETP, CW004A, UNS No. C 11000  
acc. to SE-Cu, CU-HCP, CW021A, UNS No.C 10300

Dimensions:

Form	Dimension in mm	Dimension in inch
Round	6,35 - 78mm	1/4" - 3"
Rectangle-flat	up to 20 x 120 mm	up to 0.8" x 4

**Titanium clad aluminum round and rectangle-flat bars and rods with material Ti Gr1 or Gr2 and Al 1050/1060/1100 for anode electroplating**

Titanium clad aluminum bars

Clad material: Ti acc. to No. 37025 or 37025 or 3.7055,, ASTM B 265 Grade 1

Core material: Al acc. to 1050、1060、1100

Dimensions:

Form	Dimension in mm	Dimension in inch
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Round 6.35 - 78mm 1/4" - 3"  
Rectangle-flat up to 20 x 120 mm up to 0.8" x 4 "

**Round or rectangle-flat SS/Steel clad Alu/Aluminum bars and rods with material SS304 or 316L and Al 1050/1060/1100**

Clad material: SUS 316L 304  
Core material: Al 1050、1060、1100  
Dimensions:  
Form Dimension in mm Dimension in inch  
Round 6.35 - 78mm 1/4" - 3"  
Rectangle-flat up to 20 x 120 mm up to 0.8" x 4 "

**Flat (rectangle) and round copper/Cu clad Stainless-steel/steel/SS bars and tubes and rods by compound extrusion presses for electroplating and electrolysis metal with material copper T2 and TU2 and SS304 or 316L**

Clad material: Cu acc. to E-Cu58, CU-ETP, CW004A, UNS No. C 11000  
acc. to SE-Cu, CU-HCP, CW021A, UNS No. C 10300  
Core material: SUS 316L 304  
Dimensions:  
Form Dimension in mm Dimension in inch  
Round 6.35 - 78mm 1/4" - 3"  
Rectangle-flat up to 20 x 120 mm up to 0.8" x 4 "

**Titanium sheets and plates with standards ASTM B265 ASME SB265 Gr1, Gr2, Gr3, Gr4, Gr7**

Material: Ti Gr1, Gr2, Gr3, Gr7, etc.  
Standards: ASTM B265, ASME SB265, etc  
Surface: polished

**ASTM Gr1, Gr2 seamless and welded titanium round and square tubes and pipes**

Standards: ASTM B337, ASTM B338, etc  
Material: Gr1, Gr2, etc.  
Specification: Diameter19(0.75" ), Diameter25(1.0" ), or built to order  
Shape: round, square

**ASTM Gr1,Gr2 round or flat( rectangle) titanium bars as ASTM B348、ASTM F136、ASTM F67**

Material: Gr1, Gr2, etc.  
Standards: ASTM B348、ASTM F136、ASTM F67,etc  
Specification: Diamter2-Diameter65 or built to order  
Surface: polished  
Shape: round, rectangle/flat

**Round and rectangle-flat titanium baskets/meshes and bags for electrolytic copper foil or copper electrowinning**

Material : Ti,  
Mesh size: 3\*6, 4\*8, 5\*10, 6\*12,etc  
Sheet thickness: 1.0mm, 1.2mm, 1.5mm, etc  
Mesh thickness: 1.0mm, 1.2mm, etc  
Shape: round, rectangle/flat

**Titanium meshes with material ASTM Gr1, Gr2**

Material : Ti, Gr1, Gr2  
Standards: ASTM B265, ASME SB265, etc  
Thickness: 0.3mm up to 20mm  
Dimension: custom-made size available  
Mesh open size: 3\*2 3\*6, 4\*8, 5\*10, 6\*12, etc

**Titanium wires annealed and cleaned as ASTM Gr1, Gr2, Ti-6AL-4V round titanium wires**

Material : Ti, Gr1, Gr2,Gr3, Gr4, Gr5, Gr23, etc  
Diameter: 0.5mm-7mm  
Standards: AWS A5.16,?ASTM B863  
Ti Wire Types: Ti Wire Coil, Ti Wire Spool, Ti Wire Straight

**Ti/ Titanium heating Coils for heating and cooling systems with material ASTM Gr1, Gr2**

Material Type: Ti, Zr, Nb, Ta or SS  
Coil Style: G = Grid; S = Serpentine; H = Helical; U = "U"  
Orientation: H = Horizontal; V = Vertical; B = Bottom Mount  
Length of Coil (as required)  
Riser Length (as below) can be special ordered

**Titanium fasteners as titanium bolts, titanium nuts, titanium washers, titanium tabs, titanium hook support straps, titanium gussets**

Material : Ti, Gr1, Gr2  
Types: bolts, threaded studs, washers, screws, nuts  
Standard: DIN, ISO, JIS, BS

**Other titanium products as titanium disks, titanium racks, titanium tabs, titanium gussets, titanium hook support straps**

Material : Ti, Gr1, Gr2,Gr3, Gr7  
Types: tabs, gussets, hook support straps, racks, disks, etc  
Standard: ASTM B265