YESHENG TITANIUM

宝鸡市烨盛钛业有限公司

Baoji Yesheng Titanium Industry Co.,Ltd

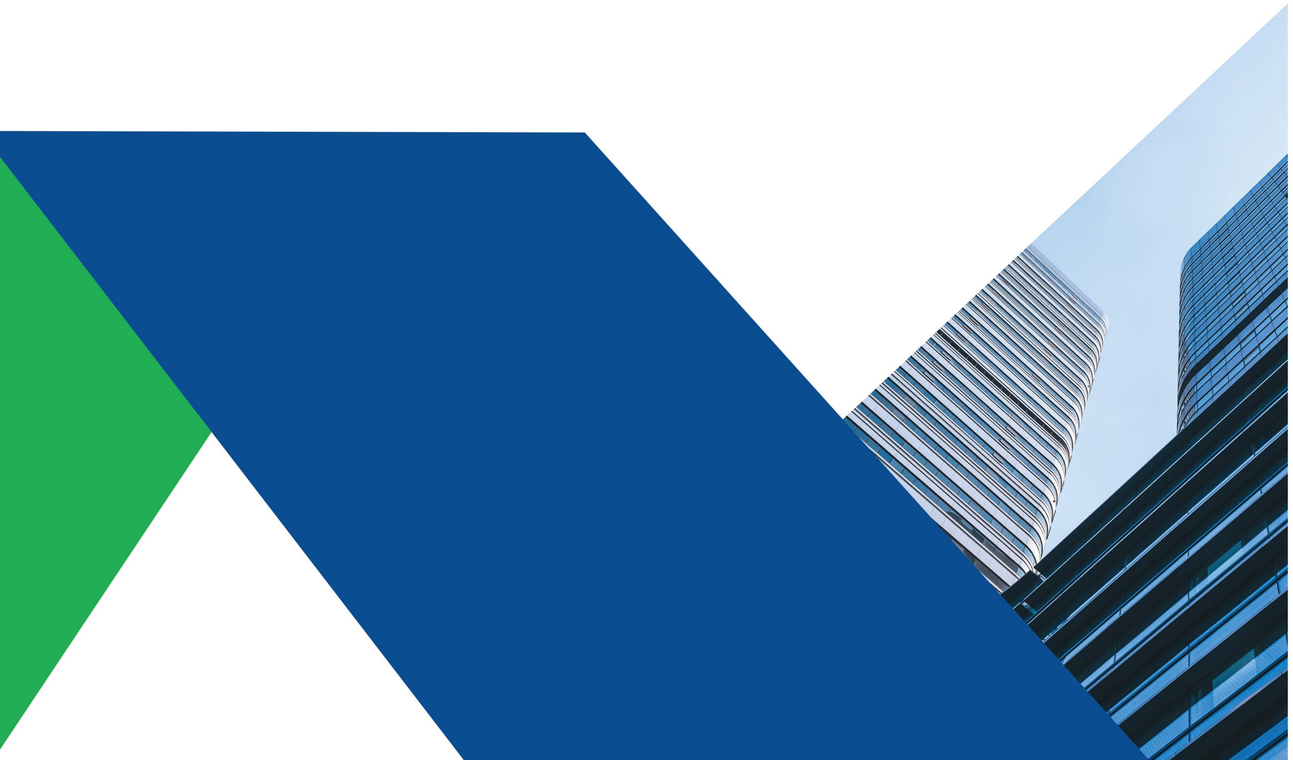
产品画册
CATALOG

电话：0917-3906666 0917-3371959
传真：0917-3371959
邮箱：YS3906666@126.com
网址：www.yeshengti.com
地址：陕西省宝鸡市高新区钛城路温泉工业园19号
Tel：0917-3906666 0917-3371959
Fax：0917-3371959
E-mail：Info@yeshengti.com
Website：www.tiyesheng.com; www.yeshengti.com
Add：19th Wenquan IndustrialPark, Titanium City Road,High-tech District, BaojiCity, Shaanxi Province, China

抖 音　　微信公众号

CONTENTS
目录

- 企业简介----------01
  Company Profile
- 证书 ----------02
  Certification
- 熔炼工艺流程 ----------04
  Smelting Process
- 精密模锻工艺流程 ----------05
  Precision Die Forging Process
- 产品 ----------06
  Products
- 生产设备 ----------12
  Production Equipment
- 检测设备----------14
  Testing equipment
- 工艺流程----------15
  Process
- 钛及钛合金牌号和化学成分----------16
  Designation and Composition of titanium and titanium alloys



企业简介 COMPANY PROFILE

宝鸡市烨盛钛业有限公司成立于2007年，位于中国“钛谷”--宝鸡，是一家集钛及钛合金产品的生产、加工、销售于一体的高新技术企业和专精特新企业。公司已通过ISO9001、GJB9001等质量体系认证。

公司拥有先进的熔炼、液压锻造、精密模锻、异型环饼件加工设备。主要产品有钛及钛合金的法兰、环、饼、锻件、机加件、标准件、管件，以及板、棒、丝、管、锭等。

公司构建了从原料采购，生产加工到终端应用的全流程质量追溯体系。产品已出口至美国、欧洲、俄罗斯、日韩等国家和地区。

烨盛钛业始终坚持“以客户为中心，以结果为导向，以价值为体现”的核心理念，致力于为客户提供更优质的产品和更高效的服务。

Baoji Yesheng Titanium Industry Co., Ltd., established in 2007 and headquartered in Baoji—China's renowned "Titanium Valley," is a high-tech enterprise specializing in producing, processing, and selling titanium and titanium alloy products. It is certified with ISO9001 and GJB9001 quality management systems.

The company is equipped with state-of-the-art facilities such as vacuum melting furnaces, hydraulic forging systems, precision die forging equipment, specialized machinery for processing irregular ring/disc components, etc. Its portfolio encompasses forged parts (flanges, rings, discs), machined components, standard fittings, pipe accessories, as well as semi-finished materials including plates, bars, wires, tubes, ingots, etc.

By implementing a full-process quality traceability system spanning from raw material procurement to end-user applications, the company ensures product excellence across all stages. Its products have gained international recognition and been exported to markets including the United States, Europe, Russia, Japan, etc.

Yesheng Titanium Industry Co., Ltd has always adhered to the “customer-centered, result-oriented, and value-reflective” concept. It is committed to providing customers with better quality products and more efficient service.

证书 CERTIFICATION

证书 CERTIFICATION

熔炼工艺流程 SMELTING PROCESS

熔炼车间 MELTSHOP

电极压制
ELECTRODE SUPPRESSION

真空焊接
VACUUM WELDING

熔炼
SMELTING

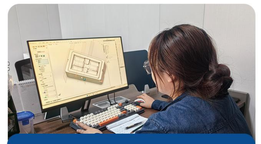
车床扒皮
LATHE PEELING

锯切
SAW CUTTING

YESHENG TITANIUM

精密模锻工艺流程 PRECISION DIE FORGING PROCESS

模锻车间 DIE FORGING WORKSHOP


模具设计
MOLD DESIGN

下料锯切
SAW CUTTING

加热
HEATING

锻压
FORGING AND PRESSING

回炉
MELT DOWN

制坯
BILLET MAKING

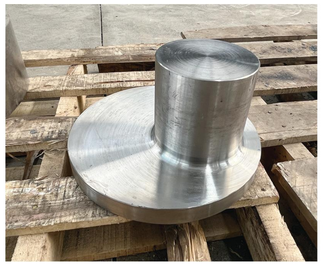
回炉
MELT DOWN

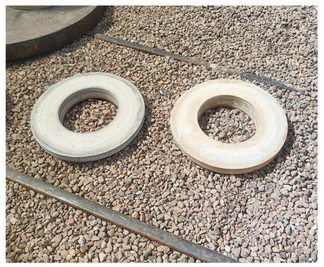
碾环
RING ROLLING

机加
MACHINING

产品 PRODUCTS

模锻件 Forgings





YESHENG TITANIUM

产品 PRODUCTS

模锻件 Forgings

产品 PRODUCTS

钛法兰 Titanium Flanges

带颈平焊法兰
Slip-On Flange (SO)

带颈对焊法兰
Welding Neck Flange (WN)

板式平焊法兰
Plate Type Flat Welding Flange（PL）

整体法兰
Integral Flange (IF)

承插焊法兰
Socket Weld Flange (SW)

螺纹法兰
Threaded Flange (Th)

对焊环松套法兰
Lapped Joint Flange (LF/SE)

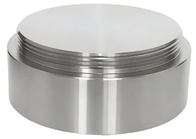
法兰盖
Blind Flange (BL/BF)

船用法兰
Marine Flange

YESHENG TITANIUM

产品 PRODUCTS

钛靶块 Titanium Target Block



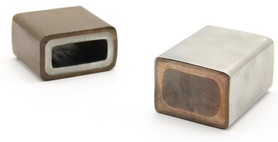
异形件 Special-profiled Parts

紧固件 Fasteners

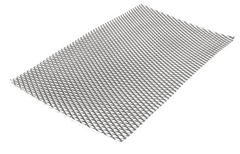
其他产品OTHER PRODUCTS

管件 Pipe Fittings

钛铜复合 Titanium Clad Copper



钛网 Titanium Mesh



钛阳极 Titanium Anode

阀门 Titanium Valves

生活用品 Titanium Daily Necessities

产品 PRODUCTS

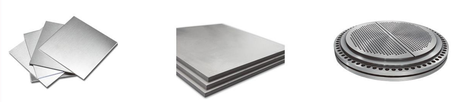
钛锭 TITANIUM INGOT

Grade(牌号)	Specification(规格)		
	Diameter（直径）	Length（长度）	Unit Weight（单位重量）
TAI-TA4,TA8-TA10, TA15-TA18,TC4, GR1-GR5,GR7,GR9, GR11,GR12	460mm 480mm 560mm 650mm 850mm	2000mm	3000kg-8000kg

钛材料 TITANIUM MATERIAL

钛板 Titanium Plate

Grade(牌号)	Specification(规格)
TA1-TA4,TA10,TA15, TA17,GR1-GR5,GR7,GR9, GR7,GR11,GR12	GB/T3621,GB/T14845,ASTMB265,GB/T31297, GB/T31298,GB/T31910,GB/T13810,ASTM F67, AMS4928,ASTM F136
	Dimension（尺寸）
	Thk.0.6-2.0x1000x≤3000mm Thk.3.0-5.0x1250x≤3500mm Thk.6.0-60x≤2500x≤7000mm



钛板 Titanium Plate　**钛复合板** Titanium Composite Plate　**钛管板** Titanium Tube Plate

钛棒 Titanium Bar

Grade(牌号)	Specification(规格)	
TA1-TA4,TA8-TA10, TAI5-TA18,GR1-GR5, GR7,GR9,GR11,GR12, TI-6AL-4V,TI-6AL-4V Eli	GB/T2965,GB/T13810,ASTMB348/ASTM SB348, ASTM F67,AMS4928,ASTM F136	
	Diameter（直径）	Length（长度）
	4mm~250mm	Max.6000mm

钛六角棒 Titanium Hex Bar　**钛圆棒** Titanium Round Bar　**钛方棒** Titanium Square Bar

钛丝 Titanium Wire

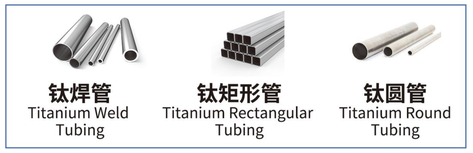
Grade(牌号)	Specification(规格)
TA1-TA3,TA8-TA10, TA16,GR1-GR5,GR7, GR9, GR11,GR12	GB/T3623, ASTM B863,ASTM F136, ASTM F67 GB/T13810
	Dimension（尺寸）
	0.1-7.0 x L mm

产品 PRODUCTS

钛型材 Titanium Profiles

钛管 Titanium Tube

Grade(牌号)	Specification(规格)
TAI-TA3,TA8-TA10 TAI6,GR1-GR5,GR7, GR9,GR11.GR12	GB/T3624,GB/T26057, GB/T26058,GB/T3625, ASTM B861,ASTM B862
	Dimension（尺寸）
	Φ3-ϕ500X6000mm



钛焊管 Titanium Weld Tubing　**钛矩形管** Titanium Rectangular Tubing　**钛圆管** Titanium Round Tubing

锻件&机加件 FORGINGS & MACHINED PARTS

钛饼 Titanium Disk

Grade(牌号)	Specification(规格)
TA1-TA3,TA8-TA10, TAI5-TA18,GR1-GR5, GR7,GR9,GR11, GR12	GB/T16598,GB/T25137,ASME SB381,ASTMB381
	Dimension（尺寸）
	DIA200-2000XT300mm

钛环 Titanium Ring

生产设备 PRODUCTION EQUIPMENT

真空焊箱
Vacuum Welding Box

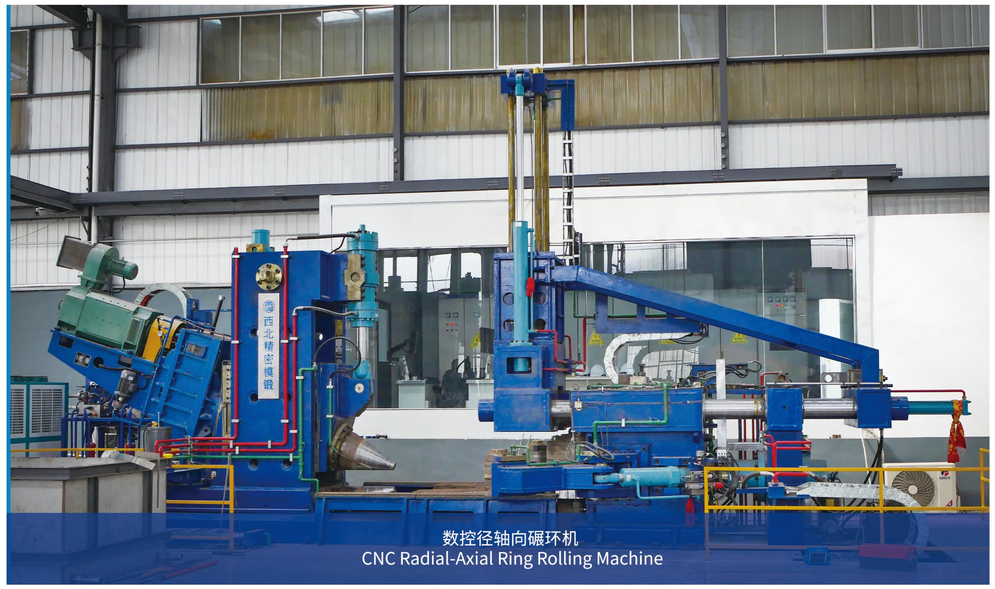
真空自耗熔炼炉
Vacuum Consumable Melting Furnace

箱式电阻炉
Chamber Resistance Furnace

25MN快速锻造液压机组
25MN Rapid Forging Hydraulic Unit

1250T快锻液压机
1250T Hydraulic Forging Machine

生产设备 PRODUCTION EQUIPMENT

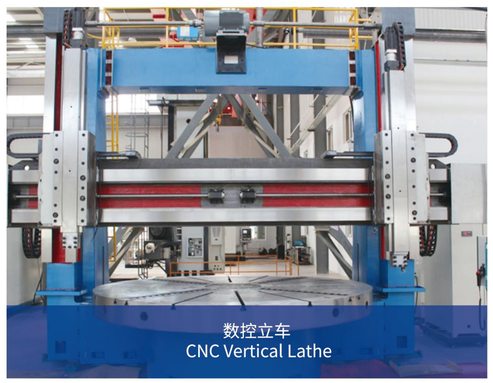


数控径轴向碾环机
CNC Radial-Axial Ring Rolling Machine

电动螺旋压力机
E-Screw Press Machine

加工中心
Machining Center

数控车
CNC Lathe



数控立车
CNC Vertical Lathe

数控钻床
CNC Drilling Machine

检测设备 TESTING EQUIPMENT

三坐标测量仪
Coordinate Measuring Machine

超声探伤仪
Ultrasonic Flaw Detector

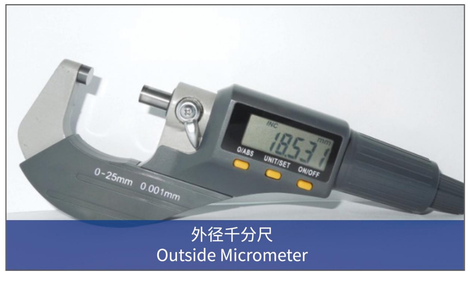
光谱仪
Spectrometer

内径千分尺
Inside Micrometer

内径千分尺
Inside Micrometer

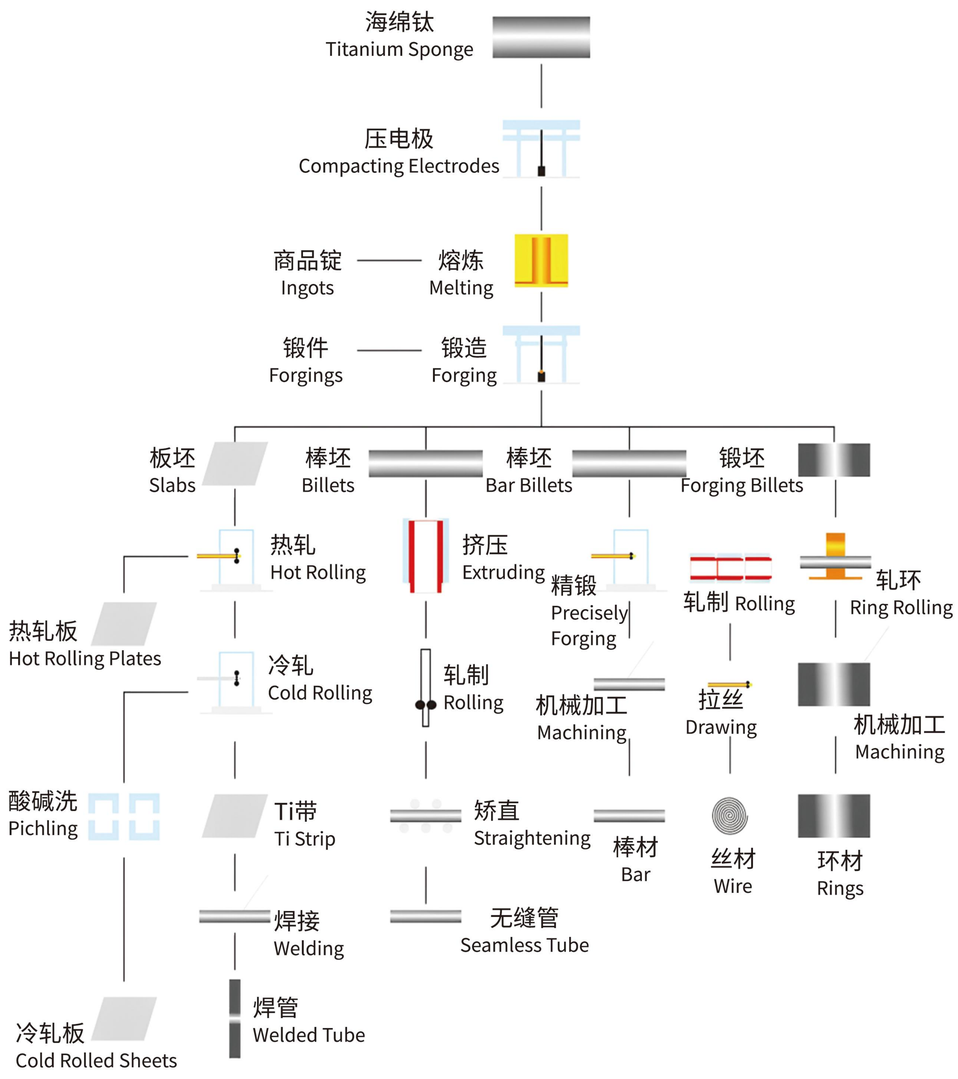
数显卡尺
Digital Caliper

数显深度卡尺
Digital Depth Caliper



外径千分尺
Outside Micrometer

工艺流程 PROCESS



钛及钛合金牌号和化学成分

DESIGNATION AND COMPOSITION OF TITANIUM AND TITANIUM ALLOYS

合金	化学成分	化学成分%														
		主要成分								杂质，不大于						
		Ti	Al	Sn	Mo	Pd	Ni	Si	B	Fe	C	N	H	O	其他元素 单一	其他元素 总和
TAIELI	工业纯钛	余量	—	—	—	—	—	—	—	0.10	0.03	0.012	0.008	0.10	0.05	0.20
TAI	工业纯钛	余量	—	—	—	—	—	—	—	0.20	0.08	0.03	0.015	0.18	0.10	0.40
TA1-1	工业纯钛	余量	≤0.20	—	—	—	—	≤0. 08	—	0.15	0.05	0.03	0.003	0.12	—	0.10
TA2ELI	工业纯钛	余量	—	—	—	—	—	—	—	0.20	0.05	0.03	0.008	0.10	0.05	0.20
TA2	工业纯钛	余量	—	—	—	—	—	—	—	0.30	0.08	0.03	0.015	0.25	0.10	0.40
TA3ELI	工业纯钛	余量	—	—	—	—	—	—	—	0.25	0.05	0.04	0.008	0.18	0.05	0.20
TA3	工业纯钛	余量	—	—	—	—	—	—	—	0.30	0.08	0.05	0.015	0.35	0.10	0.40
TA4ELI	工业纯钛	余量	—	—	—	—	—	—	—	0.30	0.05	0.05	0.008	0.25	0.05	0.20
TA4	工业纯钛	余量	—	—	—	—	—	—	—	0. 50	0.08	0.05	0.015	0.40	0.10	0.40
TA5	Ti-4AI-0.005B	余量	3.3~4.7	—	—	—	—	—	0.005	0.30	0.08	0.04	0.015	0.15	0.10	0.40
TA6	Ti-5AI	余量	4.0~5.5	—	—	—	—	—	—	0.30	0.08	0.05	0.015	0.15	0.10	0.40
TA7	Ti-5AI-2.5Sn	余量	4.0~6.0	2.0~3.0	—	—	—	—	—	0.50	0.08	0.05	0.015	0.20	0.10	0.40
TA7ELI	Ti-5AI-2.5SnELI	余量	4.50~5.75	2.0~3.0	—	—	—	—	—	0.25	0.05	0.035	0.0125	0.12	0.05	0.30
TA8	Ti-0.05Pd	余量	—	—	—	0.04~0.08	—	—	—	0.30	0.08	0.03	0.015	0.25	0.10	0.40
TA8-1	Ti-0.05Pd	余量	—	—	—	0.04~0.08	—	—	—	0.20	0.08	0.03	0.015	0.18	0.10	0.40
TA9	Ti-0.2Pd	余量	—	—	—	0.12~0.25	—	—	—	0.25	0.08	0.03	0.015	0.20	0.10	0.40
TA9-1	Ti-0.2Pd	余量	—	—	—	0.12~0.25	—	—	—	0.20	0.08	0.03	0.015	0.18	0.10	0.40
TA10	Ti-0.3Mo-0.8Ni	余量	—	—	0.2~0.4	—	0.6~0.9	—	—	0.30	0.08	0.03	0.015	0.25	0.10	0.40

合金牌号	化学成分	化学成分%															
		主要成分										杂质，不大于					
		Ti	Al	Sn	Mo	V	Mn	Zr	Si	Nd	Fe	C	N	H	0	其他元素 单一	其他元素 总和
TA11	Ti-8AI-IMo-IV	余	7.35~8.35		0.75~1.25	0.75~1.25	—	—	—	—	0.30	0. 08	0.05	0.015	0.12	0.10	0.40
TA12	Ti-5.5AI-4Sn-2Zr -IMo-INd-0.25Si	余	4.8~6.0	3.7~4.7	0.75~1.25	—	—	1.5~2.5	0.2~0.35	0.6~1.2	0.25	0. 08	0.05	0.0125	0.15	0.10	0.40
TA12-1	Ti-5.0AI-4Sn-2Zr-1.5Mo-INd-0.25Si	余	4.5~5.5	3.7~4.7	1.0~2.0	—	—	1.5~2.5	0.2~0.35	0.6~1.2	0.25	0. 08	0.04	0.0125	0.15	0.10	0.30
TA13	Ti-2.5Cu	余	Cu:2.0~3.0		—	—	—	—	—	—	0.20	0. 08	0.05	0.010	0. 20	0.10	0.30
TA14	Ti-2.3AI-11Sn-5Zr-IMo-0.2Si	余	2.0~2.5	10.5~11.5	0.8~1.2	—	—	4.0~6.0	0.10~0.50	—	0.20	0. 08	0.05	0.0125	0. 20	0.10	0.30
TAI5	Ti-6.5AI-1MO -1V-2Zr	余	5. 5~7.1	—	0.5~2.0	0.8~2.5	—	1.5~2.5	≤0.15	—	0.25	0. 08	0.05	0.015	0.15	0.10	0.30
TA15-1	Ti-2.5AI-IMo-IV-1.5Zr	余	2.0-3.0	—	0. 5~1.5	0. 5-1.5	—	1.0~2.0	≤0.10	—	0.15	0. 05	0.04	0.003	0.12	0.10	0.30
TA15-2	Ti-4AI-IMo-1V-1.5Zr	余	3.5~4.5	—	0. 5~1.5	0.5~1.5	—	1.0~2.0	≤0.10	—	0.15	0. 05	0.04	0.003	0.12	0.10	0.30
TA16	Ti-2AI-2.5Zr	余	1.8~2.5	—	—	—	—	2.0~3.0	≤0.12	—	0.25	0. 08	0.04	0.006	0.15	0.10	0.30
TA17	Ti-4AI-2V	余	3.5~4.5	—	—	1.5~3.0	—	—	≤0.15	—	0.25	0. 08	0.05	0.015	0.15	0.10	0.30
TA18	Ti-3AI-2.5V	余	2.5~3.5	—	—	1.5~3.0	—	—	—	—	0.25	0. 05	0.02	0.015	0.12	0.10	0.40

合金牌号	化学成分	化学成分%															
		主要成分										杂质，不大于					
		Ti	Al	Sn	Mo	V	Cr	Fe	Mn	Cu	Si	Fe	C	N	H	O	其他元素 单一	其他元素 总和
TC1	Ti-2AI-1.5Mn	余	1.0~2.5	—	—	—	—	—	0.7~2.0	—	—	0.30	0.08	0.05	0.012	0.15	0.10	0.40
TC2	Ti-4AI-1.5Mn	余	3. 5~5.0	—	—	—	—	—	0.8~2.0	—	—	0.30	0.08	0.05	0.012	0.15	0.10	0.40
TC3	Ti-5AI-4V	余	4.5~6.0	—	—	3.5~4.5	—	—	—	—	—	0.30	0.08	0.05	0.015	0.15	0.10	0.40
TC4	T1-6AI-4V	余	5.5~6.8	—	—	3.5~4.5	—	—	—	—	—	0.30	0.08	0.05	0.015	0.2	0.10	0.40
TC4ELI	Ti-6AI-4VELI	余	5.5-6.5	—	—	3.5~4.5	—	—	—	—	—	0.25	0.08	0.03	0.0125	0.13	0.10	0.40
TC6	Ti-6AI-1.5Cr-2.5Mo-0.5Fe-0.3Si	余量	5. 5~7.0	—	2.0~3.0	—	0.8~2.3	0.2~0.7	—	—	0.15~0.40	—	0.08	0.05	0.015	0.18	0.10	0.40
TC8	Ti-6. 5AI-3. 5Mo-0.25Si	余量	5.8~6.8	—	2.8~3.8	—	—	—	—	—	0.2~-0.35	0.40	0.08	0.05	0.015	0.15	0.10	0.40
TC9	Ti-6. 5AI-3. 5Mo-2. 5Sn-0. 3Si	余量	5.8~6.8	1.8~2.8	2.8~3.8	—	—	—	—	—	0.2~0.4	0.40	0.08	0.05	0.015	0.15	0.10	0.40
TC10	Ti-6AI-6V-2Sn -0.5Cu-0.5Fe	余量	5.5~6.5	1.5~2.5	1.5~2.5	5.5~6.5	—	0.35~1.0	—	0.35~1.0	—	—	0.08	0.04	0.015	0.20	0.10	0.40

合金牌号	化学成分	化学成分%															
		主要成分										杂质，不大于					
		Ti	Al	Sn	Mo	V	Cr	Fe	Zr	Nb	Si	Fe	C	N	H	O	其他元素 单一	其他元素 总和
TC11	Ti-6. 5AI-3. 5Mo-1. 5Zr-0. 3Si	余量	5.8~7.0	—	2.8-3.8	—	—	—	0.8~2.0	—	0.2~0.35	0.25	0.08	0.05	0.012	0.15	0.10	0.40

钛及钛合金物理性能

PHYSICAL PROPERTIES OF TITANIUM

力学性能				
牌号	抗拉强度 Rm/Mpa	延伸强度 Rp0.2/Mpa	断面伸长率 A/%	断面收缩率 Z/%
	不小于			
TA1	240	140	24	30
TA2	400	275	20	30
TA3	500	380	18	30
TA4	580	485	15	25
TA5	685	585	15	40
TA6	685	585	10	27
TA7	785	680	10	25
TA9	370	250	20	25
TA10	485	345	18	25
TC10	585	460	15	30
TC2	685	560	12	30
TC3	800	700	10	25
TC4	895	825	10	25
TC4 ELI	830	760	10	15
TC11	1030	900	10	30

Mechanical Properties							
Alloys Spefications	Status	Tensile Strength		Yield Strength		Elongation	Area of Reduction
		Ksi	Mpa	Ksi	Mpa	%	
		≥					
Gradel	Annealed	35	240	25	170	24	30
Grade2	Annealed	50	345	40	275	20	30
Grade3	Annealed	65	450	55	380	18	30
Grade4	Annealed	80	550	70	483	15	25
Grade5	Annealed	130	895	120	828	10	25
Ti-6AL-4VELI	Annealed	125	860	115	795	10	25
Grade6	Annealed	120	828	115	483	15	25
Grade7	Annealed	50	345	40	275	20	30
Grade9	Annealed	90	620	70	483	15	25
Grade11	Annealed	35	240	25	170	24	30
Grade12	Annealed	70	483	50	345	18	25

钛及钛合金国内外相近(相似)牌号对照表

OMESTIC AND TORELON TITANIUM AND TITANIUM A OV DESIENATLON COMPARISON TABLE

	国标	美标	俄标	日标
TA1	工业纯钛	GR1	BT1-00	TP270
TA2	工业纯钛	GR2	BT1-0	TP340
TA3	工业纯钛	GR3		TP450
TA4	工业纯钛	GR4		TP550
TA8	Ti-0.05Pd	GR16		
TA8-1	Ti-0.05Pd （板换）	GR17		
TA9	Ti-0.2Pd	GR7		TP340Pb
TA9-1	Ti-0.02Pd （板换）	GR11		
TA10	Ti-0.3Mo-0.8Ni	GR12		
TA17	Ti-4AL-2V		RT-3B	
TA18	Ti-3AL-2.5V	GR9	0T4-1B	TAP3250
TB5	Ti-15V-3AL-3Gr-3Sn	Ti-15333		
TC4	Ti-6AL-4V	GR5	BT6	TAP6400
TC1	Ti-2AL-1.5Mn		0T4-1	
TC2	Ti-4AL-1. 5Mn		0T4	
TC3	Ti-5AL-4V		BT6C	
TC10	Ti-6AL-6V-2Sn-0.5Cu-0.5Fe	Ti-662		
TC24	Ti-4.5AL-3V-2Mo-2Fe			SP-700
TA7	Ti-5AL-2.5Sn	GR6	BT5-1	TAP5250
TA11	Ti-8AL-IMo-IV	Ti-811		
TA15	Ti-6.5AL-IMo-IV-2Zr		BT-20	