Ti-6Al-4V is a kind of typical  $\alpha + \beta$  titanium alloy, which is of medium/high strength, excellent fracture toughness, fatigue performance and good processing performance. Ti-6Al-4V alloy has most widely application scope at present, which are mainly used in manufacture of aircraft structure, engine blade and fastener ect. WST can supply a wide range size of Ti-6Al-4V finished products with dia.1.6mm to dia.400mm in form of billets, forgings, slabs, bars, rods and wires according to various industry specifications. Currently Ti-6Al-4V alloy is one of WST's typical products.

Table 1												
Chemical Composition												
Ti	Al	V	Fe	С	Ν	Н	0	Y	Si	Total		
balance	5.5~6.5	3.5~4.5	≤0.30	≤0.05	≤0.03	≤0.0125	≤0.20	≤0.005	≤0.10	Each ≤0.1	Total ≤0.30	

Table 2											
Mechanical Properties											
Diameter	Direction	σb	σ0.2	А	Z						
		(MPa)	(MPa)	(%)	(%)						
$\leq \! 50.8$	L	≥931	≥862	≥10	≥25						
	LT			$\geq 10$	$\geq 20$						
>50.8~101.6	L			≥10	≥25						
	LT	≥896	≥827	≥10	$\geq 20$						
	ST			≥10	≥15						
>101.6~152.4	L			≥10	$\geq 20$						
	LT	≥896	≥827	≥10	$\geq 20$						
	ST			$\geq 8$	≥15						

## Ti-6Al-4V



Fig.1 Micrograph of dia.70mm bars (200X)



Fig.3 Micrograph of dia.4mm wires (200X)



Fig.2 Micrograph of dia.30mm bars (200X)



Fig.4 Micrograph of dia.115mm bars (100X)