

Trade name | Ti 3Al- 2,5V

Standards	Material No.	EN Designation	ASTM	UNS
	3.7195	Titan Grade 9 (3Al-2,5V)	Ti-Grade 9 (3Al 2,5V)	R56320

Description | Ti-Grade 9; Titanium - 3%Al - 2.5%V

Special properties | Due to its lower Al- and V-contents the alloy is also referred to as „half 6-4“. Increasing its strength by targeted heat treatment (age hardening) is practically impossible. Its already outstanding corrosion resistance can be further increased by minor additions of Pd (0.05%) or Ru (0.1%).

Mechanical Properties 20°C	0.2% Yield strength R_p ≥ N/mm ²	Tensile strength R_m N/mm ²	Elongation A_5 ≥ %	Modulus of elasticity kN/mm ²
	520	≥ 620	15	103

Physical Properties 20°C	Density g/cm ³	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
	4.48	8.3	1.27

Application | Aircraft engineering, tennis rackets, bicycle frames, dental technology

Available forms for 3.7195 / Ti-Grade 9 (3Al-2,5V)	Sheets/Plates	Bars	Wire	Tubes/Pipes	Fittings	Forged / cast parts	Finished part (drawing)
							