

TZM + TZC

ASTM standards	ASTM B386 for foils, plates, strips and sheets ASTM B387 for rods and wires
TZM	Mo + 0,40~0,55%Ti + 0,06~0,12%Zr + 0,01~0,04% C
TZC	Mo + 1,2% Ti + 0,3% Zr + 0,1% C

TZM is a particle-reinforced alloy based on molybdenum with titanium, zircon, carbon
TZC is the improvement of TZM and has a good heat curing effect

Advantages of TZM over molybdenum:

- At over 1100 ° C the tensile strength is approximately twice that of pure molybdenum
- Better creep resistance
- Higher recrystallization temperature
- Better welding properties

		TZM
Hardness	HV	200-250
Tensile strength	N/mm ²	800-1000
Elongation	%	6 - 10
Modulus of elasticity	kN/mm ²	300
El. conductivity	Sm/mm ²	15
El. conductivity	% IACS	26
thermal conductivity at 20 °C	W/Km	130

Available forms:

Semi-finished products (bars, strips, plates), finished parts (according to customer requirements), Standard parts (screws, nuts, etc.)

Application areas:

Aerospace and other industries as nozzle material, valve body, gas pipes, pipes in the gate material, die casting molds, extrusion nozzles, high temperature furnace element, heat shields etc.