

Grade 7 • 3.7235 • TPS-Titanium 7

In addition to the advantageous characteristics of pure titanium grades, low alloy titanium grades show a better corrosion resistance. By alloying smaller amounts of Pd, the resistance against reduced solutions is increased and the risk of crevice corrosion, especially in media containing chloride, is reduced. This grade is thus used in chemical plants, especially with highly-aggressive media and with media containing chlorides.

Material grade	Norm	Chemical composition • mass in %									
		C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Sonst.
		max.	max.	max.	max.	max.	min. – max.	min. – max.	min. – max.		
Ti 2 Pd - 3.7235	DIN 17851 / 17861	0,060	-	-	-	-	-	-	-	Rest	Single: 0,1; Linked: 0,4
Ti 2 Pd - 3.7235	VD-TÜV WB 230/2	0,060	-	-	-	-	-	-	-	Rest	Single: 0,1; Linked: 0,4
Grade 7	ASME SB / ASTM B 338	0,080	-	-	-	-	-	-	-	Rest	Single: 0,1; Linked: 0,4

Material grade	Norm	Mechanical properties and heat treatment					
		Rp 0,2 [MPa]	Rp 1,0 [MPa]	Rm [MPa]	A [%]	Härte	Wärmebehandlung
		min.	min.	min. – max.	min	HRB max.	
Ti 2 Pd - 3.7235	DIN 17851 / 17861	250	270	390 - 540	22	-	weichgeglüht
Ti 2 Pd - 3.7235	VD-TÜV WB 230/2	250	270	390 - 540	22	-	weichgeglüht
Grade 7	ASME SB / ASTM B 338	275 - 450	-	345	20	-	geglüht

Tolerances				
AD - Rohr	AD	WD	special WT	ID
ab Ø4,550 mm	±0,050 mm	±0,150 mm	±0,100 mm	X
ab Ø9,530 mm	±0,050 mm	±0,100 mm	±0,080 mm	±0,050 mm
ab Ø30,001 mm***	±0,100 mm	±0,150 mm		±0,050 mm

*** to max. Ø44,500 mm

- Tolerances acc. to DIN EN 10305-1 can be confirmed to OD 30mm
- Tolerances acc. to DIN EN ISO 1127 / DIN EN 10216-5 can be confirmed
- Tolerances acc. to ASTM can be confirmed generally

Abmessungsbereich*

Abmessungsspektrum

	WD	[mm]	1,20	1,24	1,40	1,50	1,60	1,65	1,82	2,00	2,11	2,20	2,35	2,41	2,60	2,64	2,77	2,80	2,87	3,00	3,20	3,25	3,40	3,50	3,60	3,85	3,91	4,00
AD		[inch]		0,048				0,065	0,072		0,083		0,093	0,095		0,104	0,109		0,113		0,126	0,128					0,154	
[mm]	[inch]																											
10,00																												
11,00																												
12,00																												
12,70	0,500																											
13,00																												
13,50																												
14,00																												
15,00																												
15,88	0,625																											
16,00																												
16,80																												
17,15	0,675																											
18,00																												
19,00																												
19,05	0,750																											
20,00																												
21,34	0,840																											
21,40																												
22,00																												
22,23	0,875																											
23,00																												
24,30																												
25,00																												
25,20																												
25,40	1,000																											
26,00																												
26,67	1,050																											
28,00																												
30,00																												
31,75	1,250																											
32,00																												
33,40	1,315																											
35,00																												
36,00																												
38,00																												
38,10	1,500																											