

N04400 • 2.4360 • TPS-Techalloy 400

ALLOY 400 combines high strength, ductility and excellent resistance to corrosion, is a general purpose. Retains essential characteristics through manufacturing, fabrication and service life. Strength equal to structural steel, strength can be increased by mechanical working, but not by heat treating. This tubing is used in chemical and processing equipment, pulp and paper machinery, food processing and packing machinery, petroleum, petrochemical and power-generating apparatus. Also in heating elements, solenoid valves, antennas, lube oil coolers, electron tubes, electrical connectors, atomizer assemblies, marine windshield wipers, spray systems and lines for handling hydraulic fluids and acids.

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.		
2.4360	DIN 17743	0,150	0,50	0,20	-	0,020	-	63,00	-	0,30	Cu 28,0-34,0; Fe 1,0-2,5; Al 0,5
2.4360	VD-TÜV WB 2 63	0,160	0,50	2,00	-	0,020	-	63,00	-	-	Cu 28,0-34,0; Fe 1,0-2,5; Al 0,5
N04400	ASME SB / ASTM B 163/165	0,300	0,50	2,00	-	0,024	-	63,00	-	-	Cu 28,0-34,0; Fe 2,5 max.

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.	
2.4360	DIN 17743	180	210	450	35	80	weichgeglüht
2.4360	VD-TÜV WB 2 63	175	-	450 - 600	30	-	geglüht
N04400	ASME SB / ASTM B 163/165	193	-	483	35	80	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]	0,89	1,00	1,20	1,24	1,65	1,82	2,00	2,11	2,30	2,35	2,50	2,60	2,64	2,77	2,87	3,00	3,20	3,25	3,60	3,85	3,91	4,00	4,40	5,50	6,35	7,00		
AD	[inch]		0,035			0,048	0,065	0,072		0,083		0,093			0,104	0,109	0,113		0,126	0,128			0,154					0,250		
[mm]	[inch]																													
6,00																														
6,35	0,250																													
7,00																														
7,50																														
8,00																														
9,00																														
9,53	0,375																													
10,00																														
11,00																														
12,70	0,500																													
13,00																														
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																													
22,00																														
22,23	0,875																													
23,00																														
25,00																														
25,40	1,000																													
26,00																														
26,67	1,050																													
28,00																														
30,00																														
31,75	1,250																													
32,00																														
33,40	1,315																													
36,00																														
38,10	1,500																													
42,00																														
44,50	1,750																													

