

N06600 • 2.4816 • TPS-Techalloy 600

ALLOY 600 is a high nickel-chromium-iron alloy. Outstanding in strength, corrosion resistance, and oxidations resistance at elevated temperatures up to 1180°C. Offers an extremely useful combination of high strength and workability. This tubing resists ordinary forms of corrosion throughout the range from annealed to heavily cold worked. Widely used for thermocouple protection tubing, muffle tubes, jet and rocket engine fuel lines and instruments, oil coolers, oxygen nozzles in glass furnaces, cooling tubes for spot welders, bellows in assemblies for fire detection systems. Also for food processing equipment, dental and surgical instruments, gas and oxygen burner tips, phonograph cartridges, igniters for portable heaters and pushrods in electrical relays.

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.		
2.4816	DIN 17742	0,025 - 0,100	0,50	1,00	0,020	0,015	14,00 - 17,00	72,00	-	0,30	Cu 0,5 max.; Fe 6,0-10,0
2.4816	VD-TÜV WB 305	0,100	0,50	1,00	0,015	0,015	14,00 - 17,00	72,00	-	0,30	Cu 0,5 max.; Fe 6,0-10,0; Al 0,30 max.
N06600	ASME SB / ASTM B 163/167	0,150	0,50	1,00	-	0,015	14,00 - 17,00	72,00	-	-	Cu 0,5 max.; Fe 6,0-10,0

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.	
2.4816	DIN 17742	180	210	500	35	90	lösungsgeglüht
2.4816	VD-TÜV WB 305	200	-	550 - 750	30	-	weichgeglüht
N06600	ASME SB / ASTM B 163/167	241	-	552	30	-	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																											

