



Monolith NbTi 超导线通常应用于需要高工程电流密度的磁体中，如 NMR·加速器磁体等，同时也应用于MRI、MCZ、SMES、以及工业磁分离等领域的磁体中。WST可以同时提供圆形截面和矩形截面的线材，典型的铜超比在在1:1~10:1之间。通常，这种线材采用Formvar漆包绝缘的方式，但如需，也可采用表面镀镍。以下列表中的规格类目是常规产品，我们也可以根据客户的需要提供高性价比的定制产品。

Monolith NbTi wire is normally used for applications of high engineering current density such as NMR, Accelerator magnet, and also MRI, MCZ, SMES, Magnet separator for mining industry, etc. WST can supply the monolith wire in both round and rectangular cross sections, and the Copper to Non-Copper ratio ranges from 1:1 to 10:1. The Formvar enamel is typical insulation material, and Ni coating is available if needed. The standard dimensions of regular products are shown below. The customized parameters can be available for clients with effective cost solutions.

NbTi SUPERCONDUCTING WIRE(Monolith, Rectangle)

Number of filaments	Filament Diameter (μm)	Nominal Cu/ non-Cu	Nominal Diameter(mm)		Critical Current (Amps @4.2K)						Insulation	RRR (273K /10K)	
			Bare	Insulated	4T	5T	6T	7T	8T	9T			
1	18	83.5	10	1.47 × 0.77	1.55 × 0.85	>280	>245	>180	>135	>82	/	Formvar	>100
2	24	110	7	1.70 × 1.10	1.80 × 1.20	>630	>550	>420	>310	>190	>90		
3	36	78	4	1.20 × 0.75	1.28 × 0.83	>500	>420	>325	>230	>145	>66		
4		112	4	1.70 × 1.10	1.80 × 1.20	>1000	>870	>650	>495	>310	>145		
5	54	77	1.3	1.00 × 0.60	1.08 × 0.68	>710	>600	>468	>328	>205	>98		
6		94	1.3	1.20 × 0.75	1.28 × 0.83	>1045	>895	>685	>535	>325	>150		
7	630	22	1.3	1.00 × 0.60	1.10 × 0.70	>710	>600	>470	>330	>210	>100		
8		27	1.3	1.20 × 0.75	1.28 × 0.83	>1050	>900	>690	>540	>330	>155		
9		34	1.3	1.463 × 0.952	1.533 × 1.022	/	>1400	>1060	>800	>490	>235		
10		28	1.3	1.248 × 0.768	1.308 × 0.828	>1130	>960	>730	>530	>330	>150		