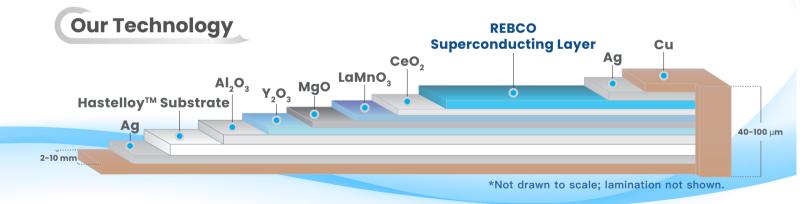
2G HTS Tapes (REBCO)

Our Company

Shanghai Superconductor Technology Co., Ltd. (SST) employs physical vapour deposition techniques for mass production of cost-effective REBCO tapes. The products demonstrate superior mechanical properties and high critical current densities over a broad range of temperatures and magnetic field strengths. As a result, SST products have been deployed in transportation, electric power, high energy physics research and fusion sectors and successfully manifested stable and competent performances. In addition, SST also provides associated equipment and engineering services including but not limited to coil winding machines and HTS magnets.



Applications of 2G HTS Tapes

















Our Products

APPLICATIONS	Electrical	Width	Grades	Ic(77l	<,s.f.)	
			S	93–1	30 A	
		3.3mm 4mm 10mm	S+	130–155 A		
			SUP	155–170 A		
			S	114–160 A		
			S+	160–190 A		
			SUP	190–210 A		
			S	300–420 A		
			S+	420–500 A		
			SUP	500-550 A		
		Width	Grades	lc(4.2K,10T)		
			S	217–260 A		
		3.3mm 4mm	S+	260-303 A		
			SUP	303–347 A		
			S	266–3	-320 A	
			S+	320-	-372 A	
		10mm	SUP	372-4	2–425 A	
			S	700–8	700–840 A	
			S+		980 A	
			SUP		120 A	
CUSTOMIZABLE SPECIFICATIONS	Substrate	30µm Hasterlloy™				
		50μm Hasterlloy™				
	single piece length	Any length below 1000m				
			Thickness options	Total thickness	Total width	
	Post-processing	Copper plating	5μm*2	65µm±10%	3.3mm、4mm、 10mm	
			10μm*2	75µm±10%		
			20µm*2	95µm±10%		
		Copper lamination	Thickness options	Total thickness	Total width	
		REBCO	75µm*2	205μm±10%	4.8mm、6mm、	
			100µm*2	255µm±10%	12mm	
		SS304 lamination	Thickness options	Total thickness	Total width	
		REBCO	80µm*2	215µm±10%	4.8mm、6mm、 12mm	
COMMON			Copper plating	Copper lamination	SS304 lamination	
	Joint resistance		30nΩ·cm²			
	Tensile strain		0.40%			
	Tensile strength (77 K/Mpa)		>100Mpa	>400Mpa	>800Mpa	
	Min. bending diameter (mm)		11–15			
	Time Soliding didilieter (IIIII)		11 10 10 20			



More Cost-Effectiveness

More Possibilities

Bai Song bai.song@shsctec.com

Major Projects

(Commercial HTS deployment at multiple kilometers scale)



4mm wide HTS tapes with copper–plating



---- State Grid/SECRI



ZhongTian Techn

4.8mm wide HTS tapes with copper lamination

12mm wide HTS tapes with SS304 lamination

160 kV DC Current limiter



10mm wide HTS tapes with copper-plating

500 kV AC HTS current limiter



——Guangdong Grid

4.8mm wide HTS tapes with copper lamination

160kV超导直流限流器

Guangdong Gr

12mm wide HTS tapes with SS304 lamination

Partners and Clients









































