

Copper Beryllium CuBe2

DIN 2.1247	En Nr. CW101C	UNS (ASTM) C17200	-	AISI		
Chemical composition (Weight %)	Cu Balance	Be 1.80-2.00	Co + Ni 0,2% min.	Co+Ni +Fe 0.6% max.	Pb < 0.02 % max.	
Main technological properties	Beryllium copper Brush 25 achieves the highest strength and hardness available among all copper alloys after age hardening, and is consequently very widely used. It exhibits excellent bendability and general formability prior to ageing, especially in the tempers A (T00), ¼ H (TD01) and ½ H (TD02). After forming and in the fully age hardened condition, the alloy Brush 25 provides a unique combination of very high strength and high conductivity, high fatigue strength limit and an excellent thermal strength relaxation behaviour.					
Typical dimensions		Thickness (mm)	Width (mm)	Length (mm)		
	Strip in coil	0,15/0,20/0,25	200-215	-		
	Strips in sheet	-	-	-		
Mechanical properties	Temper H180 hard (1/2H)		Rm (N/mm ²) 580-690	Rp (N/mm ²) 530-660	A50mm (%) 8-25	Hv 180-215
	After age hardening (by the customer) 1/2H+hardened 2h / 315°C		1270-1490	1100-1350	5-1	370-440
Color	brown					
Typical usage	Copper Beryllium is mainly used for the <ul style="list-style-type: none"> ✓ Spring contacts ✓ diaphragms ✓ bellows ✓ electric and electronic contacts and connectors ✓ switches ✓ relays ✓ bearings ✓ resistance welding electrodes ✓ various parts for the watch industry such as wheels, watch hands, balances, etc. 					
Surface	Special surface qualities upon request					
Flatness	Special requirement on the longitudinal or transversal flatness upon request					

