## TECHNICAL DATASHEET

SCHLENK 💋

Schlenk Metal Foils GmbH & Co. KG • Barnsdorfer Hauptstr. 5 • 91154 Roth-Barnsdorf Germany www.schlenk.com • foils@schlenk.de

CuSn	6				
Designation EN / CuSn6		n6 E	EN / CW452K		UNS / C51900
	e alloy with 6 % tin is charact nd its good spring properties	5		5	8
	TION OF MATERIAL 7 % • Cu: balance				
PHYSICAL	. PROPERTIES				
• Density			8,82 g/cm <sup>3</sup>		
• Melting point			900-1050 °C		
Electrical conductivity			9 m/Ω mm² (at 20 °C R350)		
Electrical resistivity			0,111 <b>Ω mm²/m (at</b> 20 °C R350)		
• Tempera	ture coefficient of electrical res	istance 0,065·1	0 <sup>-3</sup> /K (at 0 to 20	0 °C R350)	
Thermal conductivity			75 W/K m (at 20 °C)		
• Thermal of	capacity	0,377 J	0,377 J/g K (at 20 °C)		
Coefficier	nt of thermal expansion (linear)	18,5.10	) <sup>-6</sup> /K (at 20 to 30	0°C)	
• Modulus	of elasticity (tensile)	118 GP	a (at 20 °C R350	)	
MANUFACTURING PROGRAM		THICKNESS		width	
	ls, sheets inations of thickness and width are dimensions please contact our techr			1 - 640 mm	
TEMPER ACCORDING TO DIN EN 1652				TYPICAL VALUES (information only)	
	Tensile strength Rm in MPa	Yield strength R	po,2 in MPa	Elong	ation in % Lo = 100 mm
R350	≤ 420	≤ 300			> 10
R420	420 - 520	≥ 260			< 30
R500	500 - 590	≥ 450			< 25
R560	560 - 650	≥ 500			< 16
R640	≥640	≥600		< 13	

For further information please visit our website: <u>https://www.schlenk.com</u> You will find further information at: https://copperalliance.eu

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