

Technical characteristics

Material		Designations Metallurgical State	Nominal Diameter			Tensile Strength R_m N/mm ²		Yield Limit at 0.2% $R_{p0.2}$ N/mm ² approx.	Elongation			Hardness HV	
Symbolic	Numerical		from	greater than	up to and including	min.	max.		A_{100mm} % min.	$A_{11.3}$ % min.	A % min.	min.	max.
CuBe2 CuBe2Pb	CW101C CW102C	R390	0,2	–	1,0	390	540	(220)	35	–	–	–	–
		R410	–	1,0	10,0	410	540	(200)	30	25	20	–	–
		H090	0,2	–	10,0	–	–	–	–	–	–	90	160
		R510	1,0	–	10,0	510	610	(480)	–	–	15	–	–
		H120	1,0	–	10,0	–	–	–	–	–	–	120	190
		R580	1,0	–	10,0	580	690	(570)	6	8	10	–	–
		H170	1,0	–	10,0	–	–	–	–	–	–	170	220
		R750	0,2	–	1,0	750	1140	(920)	10	–	–	–	–
		R750	–	1,0	10,0	750	1140	(800)	–	–	(2)	–	–
		H220	0,2	–	10,0	–	–	–	–	–	–	220	290
		R1130	0,2	–	1,0	1130	1350	(1090)	(3)	–	–	–	–
		R1100	–	1,0	10,0	1100	1320	(1050)	5	7	8	–	–
		H350	0,2	–	10,0	–	–	–	–	–	–	350	410
		R1190	1,0	–	10,0	1190	1450	(1150)	–	–	(2)	–	–
		H360	1,0	–	10,0	–	–	–	–	–	–	360	450
		R1270	1,0	–	10,0	1270	1490	(1250)	–	–	(2)	–	–
		H370	1,0	–	10,0	–	–	–	–	–	–	370	440
		R1310	0,2	–	1,0	1310	1520	(1300)	–	–	(1)	–	–
		H390	0,2	–	1,0	–	–	–	–	–	–	390	460
		R1310	–	1,0	10,0	1310	1520	(1300)	–	–	(1)	–	–
H380	–	1,0	10,0	–	–	–	–	–	–	380	450		

Material		Metallurgical State	Nominal Diameter			Tensile Strength R_m N/mm ²		Yield Limit at 0.2% $R_{p0.2}$ N/mm ² approx.	Elongation			Hardness HV		
Symbolic	Numerical		from	greater than	up to and including	min.	max.		A_{100mm} % min.	$A_{11.3}$ % min.	A % min.	min.	max.	
CuNi1Si	CW109C	M	All Measurements			Rough Manufacture								
		R450	1,5	–	6,0	450	–	(440)	5	6	–	–	–	
		H135	1,5	–	6,0	–	–	–	–	–	–	135	175	
		R410	–	6,0	15,0	410	–	(400)	–	6	8	–	–	
		H120	–	6,0	15,0	–	–	–	–	–	–	120	160	
		R650	1,5	–	6,0	650	–	(620)	7	8	–	–	–	
		H190	1,5	–	6,0	–	–	–	–	–	–	190	240	
		R590	–	6,0	15,0	590	–	(580)	7	8	10	–	–	
		H170	–	6,0	15,0	–	–	–	–	–	–	170	220	
		CuNi2Si	CW111C	M	All Measurements			Rough Manufacture						
R480	1,5			–	6,0	480	–	(450)	(4)	5	–	–	–	
H140	1,5			–	6,0	–	–	–	–	–	–	140	180	
R410	–			6,0	15,0	410	–	(400)	–	6	8	–	–	
R130	–			6,0	15,0	–	–	–	–	–	–	130	170	
R700	1,5			–	6,0	700	–	(680)	6	7	–	–	–	
H200	1,5			–	6,0	–	–	–	–	–	–	200	250	
R640	–			6,0	15,0	640	–	(620)	–	8	10	–	–	
H190	–			6,0	15,0	–	–	–	–	–	–	190	240	