

EN 12164, Copper and copper alloys — Rod for free machining purposes

Designations		Diameter			Width across - flats			Tensile Strength	0,2% proof strength		Elongation			Hardness		
Material		Material Condition	mm			mm			Rm (Mpa)	Rp 0,2 (Mpa)		A 100 (%)	A 11,3 (%)	A (%)	HBW	
Number	Symbol		from	over	up to and including	from	over	up to and including	min.	min.	max.	min.	min.	min.	min.	max.
CW608N	CuZn38Pb2	M	All			All			As manufactured							
		R360	6	-	80	5	-	60	360	-	300	-	15	20	-	-
		H070	6	-	80	5	-	60	-	-	-	-	-	-	70	100
		R410	2	-	40	2	-	35	410	230	-	8	10	12	-	-
		H100	2	-	40	2	-	35	-	-	-	-	-	-	100	145
		R500	2	-	14	2	-	10	500	350	-	3	5	8	-	-
H120	2	-	14	2	-	10	-	-	-	-	-	-	120	-		

EN 12165, Copper and copper alloys — Wrought and unwrought forging stock

Designations		Diameter		Hardness		
Material		Material Condition	mm		HB	
Number	Symbol		from	up to and including	min.	max.
CW608N	CuZn38Pb2	M	All		As manufactured	
		H070	8	120	70	170

EN 12166, Copper and copper alloys — Wire for general purposes

Designations		Diameter		Tensile Strength	0,2% proof strength		Elongation			Hardness		
Material		Material Condition	mm		Rm (Mpa)	Rp 0,2 (Mpa)		A 100 (%)	A 11,3 (%)	A (%)	HV	
Number	Symbol		from	up to and including	min.	min.	max.	min.	min.	min.	min.	max.
CW608N	CuZn38Pb2	M	All		As manufactured							
		R360	0,5	20	360	-	300	10	15	20	-	-
		H080	1,5	20	-	-	-	-	-	-	80	110
		R410	0,5	14	410	220	-	8	10	12	-	-
		H100	1,5	14	-	-	-	-	-	-	100	160
		R500	0,5	8	500	350	-	2	5	-	-	-
H130	1,5	8	-	-	-	-	-	-	-	130	-	

EN 12168, Copper and copper alloys — Hollow rod for free machining purposes

Designations		Nominal Wall Thickness		Hardness				Tensile Strength	0,2% proof strength	Elongation	
Material		Material Condition	mm		HB		HV		Rm (Mpa)	Rp 0,2 (Mpa)	A (%)
Number	Symbol		up to and including	over	min.	max.	min.	max.	approx.	approx.	min.
CW608N	CuZn38Pb2	M	ALL		As manufactured						
		H110	10	-	110	160	120	170	(410)	(250)	(15)
		H090	-	10	90	140	100	150	(360)	(150)	(25)