EN 12163, Copper and copper alloys — Rod for general 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.
CW509L	CuZn40	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 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.
CW509L	CuZn40	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.
CW509L	CuZn40	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.
CW509L	CuZn40	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	-