

**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.
CW712R	CuZn36Sn1Pb	M	All			All			As manufactured							
		R340	5	-	60	5	-	60	340	160	-	-	20	25	-	-
		H080	5	-	60	5	-	60	-	-	-	-	-	-	80	120
		R400	5	-	50	5	-	40	400	200	-	-	16	20	-	-
		H105	5	-	50	5	-	40	-	-	-	-	-	-	105	135

**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.
CW712R	CuZn36Sn1Pb	M	All		As manufactured	
		H080	8	80	80	140

**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.
CW712R	CuZn36Sn1Pb	M	All		As manufactured							
		R340	0,5	20	340	160	-	15	20	25	-	-
		H085	1,5	20	-	-	-	-	-	-	85	125
		R400	0,1	8	400	200	-	10	16	-	-	-
		H110	1,5	8	-	-	-	-	-	-	110	140