

**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.	
CW710R	CuZn35Ni3Mn2AlPb	M	All			All			As manufactured								
		R490	5	-	40	5	-	40	490	290	-	-	15	18	-	-	
		H120	5	-	40	5	-	40	-	-	-	-	-	-	120	160	

**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.
CW710R	CuZn35Ni3Mn2AlPb	M	All		As manufactured	
		H120	8	80	120	200