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.
CW708R	CuZn31Si1	M		All			All		As manufactured							
		R460	5	-	40	5	-	40	460	240	-	-	18	22	-	-
		H120	5	-	40	5	-	40	-	-	-	-	-	-	120	160
		R530	5	-	14	5	-	14	530	350	-	-	10	12	-	-
		H140	5	-	14	5	-	14	-	-	-	-	-	-	140	-

EN 12449, Copper and copper alloys — Seamless, round tubes for general purposes

Designations			Wall Thickness	Tensile Strength	0,2% proof strength		Elongation	Hardness			
Material		Material Condition	mm	Rm (Mpa)	Rp 0,2 (Mpa)		A (%)	HV		HBW	
Number	Symbol		max.	min.	min.	max.	min.	min.	max.	min.	max.
CW708R	CuZn31Si1	M	20	-	-	-	-	-	-	-	-
		R440	8	440	200	-	20	-	-	-	-
		H115	8	-	-	-	-	115	155	110	150
		R490	8	490	250	-	15	-	-	-	-
		H145	8	-	-	-	-	145	-	140	-