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.
CW505L	CuZn30	M		All			All		As manufactured							
		R280	4	-	80	4	-	80	280	-	250	-	40	45	-	-
		H070	4	-	80	4	-	80	-	-	-	-	-	-	70	115
		R370	4	-	40	4	-	35	370	230	-	-	14	16	-	-
		H105	4	-	40	4	-	35	-	-	-	-	-	-	105	135
		R460	4	-	10	4	-	8	460	310	-	-	7	9	-	-
		H135	4	-	10	4	-	8	-	-	-	-	-	-	135	-

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.
CW505L	CuZn30	M	20	-	-	-	-	-	-	-	-
		R280	20	280	-	180	50	-	-	-	-
		H055	20	-	-	-	-	55	85	50	80
		R350	10	350	200	-	25	-	-	-	-
		H085	10	-	-	-	-	85	120	80	115
		R420	5	420	320	-	10	-	-	-	-
		H115	5	-	-	-	-	115	-	110	-