


**MATERIAL DATA SHEET CW 614N (CUZN39PB3)**

DESCRIPTION: The main area of application of CuZn39Pb3 is chipped- or cut shaping. The material is suited especially for processing with automatic lathes. Furthermore, it features good hot workability. In Germany, CuZn39Pb3 is the reference material to rate the machinability (index 100%).

CHEMICAL COMPOSITION								
%	Cu	Zn	Pb	Ni	Fe	Sn	Al	Miscellaneous
	57,0–59,0	Remainder	2,5-3,5	0,3 max.	0,5 max.	0,3 max.	0,05 max.	0,2 max.

MECHANICAL PROPERTIES ACCORDING TO DIN EN 12164									
State	Cross-Sectional Dimension		Tensile Strength	0,2 %- Yield Point	Ultimate Strain			Hardness	
	Diameter mm	Wrench Size	Rm N/mm <sup>2</sup> min.	Rp 0,2 N/mm <sup>2</sup> (approximately)	A100 % min.	A11,3 % min.	A % min.	HB / HV (approximately)	
M	from 2 to 80	from 2 to 60	As Manufactured						
R400	from 6 to 14	from 5 to 10	400	(160)	-	12	15	(90)	
R380	above 14 to 40	above 10 to 35	380	(160)	-	-	18	(90)	
R360	above 40 to 80	above 35 to 60	360	(150)	-	-	20	(90)	
R430	from 2 to 40	from 2 to 35	430	(250)	6	8	10	(120)	
R500	from 2 to 14	from 2 to 10	500	(390)	(4)	6	8	(150)	
R550	from 2 to 6	from 2 to 5	550	(420)	-	-	-	(150)	

USE: Faucets, turned parts of all kinds, story poles, ball bearing cages (drawing set parts), cylinder locks, connector pins, thread bars, valve bodies, screws, nuts, water tap handles, clock parts, cable clamps, tips of ballpoint pens, luster terminals, drop forging, circuit boards, crown wheels, equipment for electrical engineering and general mechanical engineering

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