

MATERIAL DATASHEET

ALLOY 205

Designation	
Diehl Brass Solutions	205
DIN EN symbol	CuZn36Pb3
DIN EN	CW603N
UNS	C36000

Composition (mass as %, reference values)	
Cu	61.0
Pb	2.8
Zn	remainder



Application

(general purposes)

- The alloy has good machinability and good cold formability. It is suitable for automated machining for knurling and thread rolling processes.
- In the USA, this is the main alloy for automated machining.

Products and relevant standards		
Rods (free machining purposes)	EN 12164	
Hollow rods (free machining purposes)	EN 12168	
Profiles	EN 12167	

Physical properties		
Density	g/cm³	8.5
Coefficient of linear thermal expansion: 20 – 200 °C	• 10 ⁻⁶ /K	20.6

Processing properties	
Machinability (CuZn39Pb3 = 100%)	very good (Index 90)
Hot formability	good
Cold formability	good

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Heat treatment	
Soft annealing	450 – 550 °C
Stress relief annealing	250 − 350 °C

hanical properties and hardness

- ne strength properties and hardness values are specified in the levant product standards.
- ne properties depend on the product, the condition and the mensions.

Generally good resistance to neutral, alkaline and organic aqueous solutions.

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