

ALBROMET 220 Ni		Data sheet aluminiumbronze	
Material properties:	Hard and tough construction and sliding material with high resistance to corrosion, cavitation and mechanical wear. Low permeability.		
Application examples:	Propeller, drive components, pump bodies, valve bodies, rotors, special components for ships and the chemical industry. Compression pieces and bearings, worm wheels and valve guides.		
Machining tips:	Chipping aboveboard possible with carbide tools. Because of the heat treatment (hardness reduction), welding is restricted possible.		
Typical analysis:	Al 10,0 % Fe 4,0 % Ni 5,0 % Mn 1,5 % Others 0,5 % max. Cu Balance		
Standards/Specifications:	CuAl10Ni5Fe4 EN CW 307 G DIN 17665/2.0966 ASTM C63200 / C63000		
Delivery formats:	Forged and cast parts, Semi-finished products, Finished parts based on drawings		
Mechanical and physical properties:	Forged	Extruded / Drawn	continuous casting
Brinell hardness (HB 30)	200 - 220	200 - 240	170 - 190
Tensile strength Rm	700 N/mm ²	680 - 740 N/mm ²	min. 650 N/mm ²
Yield strength Rp 0,2	360 N/mm ²	480 - 530 N/mm ²	min. 280 N/mm ²
Elongation at break A5	> 12 %	> 8 %	min. 13 %
Density	7,7 g/cm ³		
Compressive strength	1000 Mpa		
Elasticity modulus E	127,5 KN/mm ²		
Mean linear coefficient of thermal expansion	16,0 10 ⁻⁶ /K		
Thermal conductivity at 20° C	45 W/m x k		
Electrical conductivity	5,22 m/Ohm x mm ²		
Temperature resistance	< 300° C up to clear change in strength value		
Magnetic Permeability	1,07 H = 100 Oe		

*These data are based on information provided by our supplier, all changes reserved. The mechanical strength values are typical standard values and depends on the measurement and the production method.
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