

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 4,0 % Mn 1,5 % Others 0,5 % max. Cu Balance		
Standards/Specifications:	CuAl10Ni5Fe4 EN CW 307 G DIN 17665/2.0966 ASTM C63200		
Delivery formats:	Forged parts, Extruded rods, Semi-finished products, Finished parts based on drawings		
Mechanical and physical properties:	Forged	Drawn / Extruded	continuous casting
Hardness Brinell (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*mm ²		
Temperature resistance	< 300°C up to the clear change in strength value		
Magnetic Permeability	1,07 H = 100 Oe		

This data is based on information provided by our supplying plants. All changes reserved. The mechanical strength values are typical standard values and depend on the measurement and the production method.

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