

| 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) | 180 - 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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