

| <b>ALBROMET 200</b>                          |   | <b>Data sheet aluminiumbronze</b> |                           |
|--|---|-----------------------------------|---------------------------|
| <b>Material properties:</b>                  | Hard and tough aluminum bronze with high strength value and good wear resistance. Excellent sliding properties and corrosion resistance.  |                                   |                           |
| <b>Application examples:</b>                 | Bushings, leads, pinions and worm wheels, spindle nuts, valve lips, sliders in rolling mills, bolts and nuts for corrosion application. Ideal wear partner for many steel grades. Mainly used for common engine construction, in rolling mill machines and for plastic mould making |                                   |                           |
| <b>Machining tips:</b>                       | ALBROMET 200 is good to machine. For extensive chipping we recommend carbide tools. Good to weld.   |                                   |                           |
| <b>Typical analysis:</b>                     | Al 11,0 %<br>Fe 4,0 %<br>Others 0,5 % max.<br>Cu Balance  |                                   |                           |
| <b>Standards/Specifications:</b>             | CuAl10Fe<br>EN 1982<br>DIN 1714<br>ASTM B505 C95400   |                                   |                           |
| <b>Delivery formats:</b>                     | Forged parts, Castings, Extruded and HCC rods, Semi-finished products, Finished parts based on drawings   |                                   |                           |
| <b>Mechanical and physical properties:</b>   | <b>Forged/extruded</b>  |                                   | <b>continuous casting</b> |
| Hardness Brinell (HB 30)                     | 190 - 210   |                                   | 180 - 190                 |
| Tensile strength Rm                          | 630 - 700 N/mm <sup>2</sup>   |                                   | > 586 N/mm <sup>2</sup>   |
| Yield strength Rp 0,2                        | 310 - 350 N/mm <sup>2</sup>   |                                   | 221 N/mm <sup>2</sup>     |
| Elongation at break A5                       | > 8 %   |                                   | > 10 %                    |
| Density                                      | 7,5 g/cm <sup>3</sup>   |                                   |                           |
| Compressive strength                         | 950 Mpa   |                                   |                           |
| Elasticity modulus E                         | 117,7 KN/mm <sup>2</sup>  |                                   |                           |
| Mean linear coefficient of thermal expansion | 16,0 10 <sup>-6</sup> /K  |                                   |                           |
| Thermal conductivity at 20° C                | 60 W/m x k  |                                   |                           |
| Electrical conductivity                      | 7,54 m/Ohm*mm <sup>2</sup>  |                                   |                           |
| Temperature resistance                       | < 300° C up to the clear change in strength value   |                                   |                           |
| Magnetic Permeability                        | 1,18 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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