



## Albaksan Alaşımlı Bakır

### ALBA 180-1

#### CHEMICAL COMPOSITION

| <u>Cu</u> | <u>Al</u> | <u>Fe</u> | <u>Ni</u> | <u>Mn</u> | <u>Pb</u> |
|-----------|-----------|-----------|-----------|-----------|-----------|
| % rem     | 6.5-11 %  | 1.5-4 %   | max 1 %   | max 0.5%  | max 0.02% |

#### APPLICATIONS:

- Bushing,Bearing and Shaft Pieces in Liners
- Bushing, Bearing, Piston Pim Landing Gear in Aviation
- Marine and Water Treatment Application
- Chemical Industry
- Corrosion Resistance Applications for Food Industry
- Machinery Liners

#### AVAILABLE STANDART

| <u>EN</u> | <u>ASTM</u> | <u>AMS</u> | <u>DIN</u> | <u>BS</u> |
|-----------|-------------|------------|------------|-----------|
| CW303G    | C61300      | AMS 4635   | 2.0932     | CA106     |
| CW305G    | C61400      |            | 2.0936     |           |
|           | C61900      |            | CuAl8Fe3   |           |
|           | C62300      |            | CuAl9Fe2   |           |
|           | C62400      |            | CuAl10Fe1  |           |

#### SUPPLIED FORM

- Rings / Tubes
  - Plates
  - Discs
  - Centrifugals
  - Round bars
  - Square bars
  - Rectangular bars
  - Hexagon bars
- \* Custom shapes are available upon request.

#### PHYSICAL PROPERTIES:

| Density   | Specific Heat | Electrical Conductivity | Electrical Conductivity (I.A.C.S) | Thermal Conductivity |
|-----------|---------------|-------------------------|-----------------------------------|----------------------|
| 7.7 g/mm3 | 0.20 J/g.K    |                         |                                   | 40 W/m.K             |

#### MECHANICAL PROPERTIES:

| MATERIAL CONDITION | Tensile Strenght Rm N/mm <sup>2</sup> | Yield Strenght Rp 0,2 N/mm <sup>2</sup> | Elongation (A5) % | Hardness (Brinell) HB30 |
|--------------------|---------------------------------------|-----------------------------------------|-------------------|-------------------------|
| EXTRUDED           | min. 500                              | min. 220                                | min.10            | min. 120                |
| FORGED             | min. 450                              | min. 200                                | min. 10           | min. 120                |