



# SHREE EXTRUSIONS LIMITED



## CUAL11NI5FE5 ALUMINUM BRONZE

### EQUIVALENT SPECIFICATIONS

| SPECIFICATIONS | DESIGNATION  |
|----------------|--------------|
| European       | CuAl11Fe6Ni6 |
| Germany        | CuAl11Ni6Fe5 |

CuAl11Ni5Fe5 is an excellent choice for its application on aeronautical industry, due to its high mechanical properties and oxidation resistance. CuAl11Ni5Fe5 is resistant to corrosion in saline mist area

### TYPICAL USES :

**AEROSPACE:** Landing Gear Bushings & Bearings, Guides, Nuts

**HEAVY INDUSTRY:** Civil engineering, iron and steel industry, manufacturing guides, rolling mills

### CHEMICAL COMPOSITION

|          | Al          | Cr   | Co  | Cu       | Fe        | Pb   | Mn  | Ni        | Sn   | Zn  |
|----------|-------------|------|-----|----------|-----------|------|-----|-----------|------|-----|
| Min/Max  | 10.0 - 11.0 | 0.05 | 0.2 | 74.5 min | 4.0 - 5.5 | 0.03 | 1.5 | 4.2 - 6.0 | 0.25 | 0.3 |
| Nominals | 10.5000     | -    | -   | -        | 4.7000    | -    | -   | 5.1000    | -    | -   |

### PHYSICAL PROPERTIES

| Physical Property     | Value                  |
|-----------------------|------------------------|
| Density               | 7.58 g/cm <sup>3</sup> |
| Melting Point         | 1035 °C                |
| Modulus of Elasticity | 115 Gpa                |
| Thermal Conductivity  | 37.7 W/m.K             |

### SIZES AVAILABLE :

|            |  |
|------------|--|
| ROUND RODS | 8mm To 100 mm                          |
| HEX        | 10mm To 60mm                           |
| SQUARE     | 10mm To 60mm                           |
| FLAT       | 10mm Min Thickness and max Width 120mm |
| BILLETS    | Up to 200 mm                           |
| INGOTS     | As per Specification                   |

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