

## Nickel Alloys

## NF L14-706 (UA11N) Bar & Forgings

Datasheet Updated  
05 August 2021

### SPECIFICATIONS

|            |            |
|------------|------------|
| Commercial | UA11N      |
| Aerospace  | NF L14-706 |

French AFNOR aerospace specification for nickel aluminium bronze.

### CHEMICAL COMPOSITION

| Element      | % Present   |
|--------------|-------------|
| Nickel (Ni)  | 2.00 - 3.50 |
| Silicon (Si) | 0.40 - 0.80 |
| Copper (Cu)  | Balance     |

### ALLOY DESIGNATIONS

- BS 2872/4 CA104M
- BS B 23, BS 2B 23,
- EN 12163/5/7 CW307G
- NF L14-706 CuAl11Ni5Fe5
- AIR 9070 UA11N

### SUPPLIED FORMS

- Bar
- Forgings
- Rod

### APPLICATIONS

- Aerospace: Bushings and bearings
- General engineering: Wear plates, dies
- Marine: Valves, hydraulic blocks, fixtures and fittings

### CHARACTERISTICS

- One of the highest strength aluminium bronzes
- Can be heat treated by quench hardening and tempering

### MECHANICAL PROPERTIES

| Property            | Value       |
|---------------------|-------------|
| Elongation A50 mm   | 15 %        |
| Hardness Rockwell C | 159-207 HRC |
| Tensile Strength    | 586 MPa     |

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