

CA104 is an alloy of copper and aluminium with significant additions of both iron and nickel. This means the material has high strength combined with a good resistance to oxidation and corrosion, especially in marine environments.

The uses of CA104 include...

- Engine components
- Valves & pumps
- Handling super heated steam
- Handling corrosive process liquors
- Many other high temperature uses

CA104 is available in bar in the following sizes...

**10mm dia – 350mm dia**

### **Chemical & Physical Properties**

#### **Typical Chemical Composition**

<i>Elements</i>	<i>Min %</i>	<i>Max %</i>
<b>Al</b>	10	
<b>Cu</b>	Remainder	
<b>Fe</b>	4	
<b>Mn</b>	0.5	
<b>Ni</b>	5	

## Typical Mechanical Properties

Property/unit	Min
<b>Tensile Strength (N/mm<sup>2</sup>)</b>	690
<b>0.2% Proof Stress (N/mm<sup>2</sup>)</b>	320
<b>Elongation in 5.65√ cross sectional area %</b>	13
<b>Brinell Hardness (HB)</b>	180

## Tolerances

Over (mm)	Up to and including...(mm)	Close	Normal
3	6	-0.12	+/-0.15
6	10	-0.15	+/-0.18
10	18	-0.18	+/-0.22
18	30	-0.21	+/-0.26
30	50	-0.39	+/-0.32
50	80	-0.46	+/-0.60
80 & over			+2%

The information above is based on our current knowledge and is given in good faith; however the company will accept no liability in respect of any third party reliance thereon.