

High-quality aluminium bronze **a30**

1. Structure

Premium quality aluminium bronze **a30** forms coherent compact grain structure – achieved in unique forging technique – different from standard rough grain structure of typical bronze alloys.

High speed medium load bearings where lubrication is not always guaranteed. Alloy has low friction properties. Resistant to sea water and sulfuric acid.

2. Chemical Composition

Aluminium (Al) – 13,10%

Iron (Fe) – 4,40%

Other (max) – 2,50%

Copper (Cu) – balance

3. Chemical and physical properties

Parameter	Unit	Value
Tensile strength R_m	MPa	200
Relative elongation A_5	%	8
Brinell hardness	HB	70
Density ρ	g / cm^3	9,1
Maximum recommended load	MPa	20
Maximum recommended speed	m/s	12

4. Lubrication

Requires boundary lubrication.