

Nickel Alloy Forgings and Castings

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Now available from Copper Alloys Ltd...

Manufactured to order on short lead times for competitive prices

- Bespoke production
- Short lead times
- Custom alloys and formats
- Efficient production methods Room temperature nominal mechanical properties

Tensile Strength Proof Stress Rp0.2

Elongation HardnessUNS No.

British Standard

ASTM

Density

Common Name

N/mm²Ksi

N/mm²Ksi

A%Brinell

g/cm³Alloy 400

Nominal composition: Ni 66%, Cu 31%, Iron 1.5%, Mn 1.5%

N04400

BS 3076 NA13

B164 & B165

8.8

Hot worked

552-758

80-110 276-690

40-100

30-60

135-230

Hot worked and annealed

517-620

75-90

172-345

25-50

35-60

110-150

Alloy K-500

Nominal composition: Ni 64.5%, Cu 30%, Al 3%, Fe 1%, Mn 1%, Ti 0.5% N05500

BS 3076 NA18

B865

8.44

Hot worked 621-1070

90-155

276-759

40-110

20-45

140-310

Hot worked and annealed

965-1310

140-190

690-1034

100-150

20-30265-345

Like what you see? Copper Alloys makes all of this in Aluminium Bronze, Copper-Nickel and Copper-Chrome alloys.