

## Alloy 400

A strong weldable, nickel copper alloy resistant to corrosion by seawater. Used in steam generators, feedwater heaters, cladding of offshore installations, pump and propeller shafts, marine fixtures and fasteners, also chemical processing equipment.

Maher Ltd stock alloy 400 bars in imperial sizes, primarily for the fastener industry. In addition to this extensive size range of round bars, a corresponding stock of hexagon bars is also held.

## National Specifications

| ASTM | UNS    | SAE AMS | British Standard | Werkstoff |
|------|--------|---------|------------------|-----------|
| B164 | N04400 | -       | 3076 NA13        | 2.4360    |

Material may also be released to Customer Specifications, subject to enquiry.

## Technical Data

Nominal Composition by Percent

|     | C   | Mn  | Si  | S     | Ni   | Cu   | Fa  | - |
|-----|-----|-----|-----|-------|------|------|-----|---|
| Min | -   | -   | -   | -     | 63.0 | 28.0 | -   | % |
| Max | 0.3 | 2.0 | 0.5 | 0.024 | -    | 34.0 | 2.5 | % |

Typical Mechanical Properties

| Annealed Condition                | PSI    | MPa | %  |
|-----------------------------------|--------|-----|----|
| Tensile Strength, min             | 70,000 | 480 | -  |
| Yield Strength (0.2% offset), min | 25,000 | 170 | -  |
| Elongation on 4D, min             | -      | -   | 35 |
| Reduction of Area                 | -      | -   | -  |
| Hardness                          | -      | -   | -  |