

## NICKEL ALLOY MP159® BAR

MP159 is a nickel cobalt based alloy with the same characteristics as MP35N. MP159 alloy is an ultra high strength material, with good toughness, ductility and excellent corrosion resistance an through work strengthening and aging achieves an ultimate tensile figure in excess of 1830 MPa.

| Specific Gravity              |                   |                  |            |                        |     |     |     |
|-------------------------------|-------------------|------------------|------------|------------------------|-----|-----|-----|
| 8.37 g/cm <sup>3</sup>        |                   |                  |            |                        |     |     |     |
| Typical Applications          |                   |                  |            | Related Specifications |     |     |     |
| Fasteners                     |                   |                  |            | AMS 5841               |     |     |     |
| Jet Engine components         |                   |                  |            | AMS 5842               |     |     |     |
| Prosthetic devices            |                   |                  |            | AMS 5843               |     |     |     |
| Marine Applications           |                   |                  |            | UNS R30195             |     |     |     |
| Chemical Composition (Wt %)   |                   |                  |            |                        |     |     |     |
| Ni                            | Co                | Cr               | Fe         | Mo                     | Ti  | Cb  | Al  |
| 25.5                          | 35.7              | 19.0             | 9.0        | 7.0                    | 3.0 | 6.0 | 0.2 |
| Typical Mechanical Properties |                   |                  |            |                        |     |     |     |
|                               | 0.2% Proof Stress | Tensile Strength | Elongation | Reduction of area      |     |     |     |
| Condition Annealed            | MPA               | MPA              | %          | %                      |     |     |     |
| 1925 deg f/4 hrs/WQ           | 400               | 850              | 60         | 69                     |     |     |     |

\* This data has been supplied in good faith and is indicative only. It has been provided for general information purposes only and is not to be relied upon in place of the full specification. Mechanical properties can vary considerably with different supply conditions such as heat treatment or temper and product dimensions.

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