

## AERMET 100 STAINLESS STEEL - AMS 6532

Aermet 100 steel (AMS 6532) has a high hardness and strength combined with very good toughness and ductility. Aermet 100 is generally used for applications that require high strength, high fracture toughness and good resistance to stress corrosion cracking and fatigue.

| Specific Gravity  |      |       |    |     |     |     |        |  |                         |                     |            |                      |     |       |     |
|---|------|-------|----|-----|-----|-----|--------|--|-------------------------|---------------------|------------|----------------------|-----|-------|-----|
| 7.9 g/cm <sup>3</sup>   |      |       |    |     |     |     |        |  |                         |                     |            |                      |     |       |     |
| Typical Applications  |      |       |    |     |     |     |        | Related Specifications                   |                         |                     |            |                      |     |       |     |
| Landing Gear<br>Drive Shafts<br>Fasteners<br>Actuators<br>Jet Engine Shafts |      |       |    |     |     |     |        | <b>AMS 6532</b><br><br><b>UNS K92580</b> |                         |                     |            |                      |     |       |     |
| Chemical Composition  |      |       |    |     |     |     |        |  |                         |                     |            |                      |     |       |     |
|   | C    | Al    | Co | Cr  | Mn  | Mo  | N      | Ni                                       | O                       | P                   | S          | S+P                  | Si  | Ti    | Fe  |
| Min   | 0.21 | –     | 13 | 2.9 | –   | 1.1 | –      | 11                                       | –                       | –                   | –          | –                    | –   | –     | Bal |
| Max   | 0.25 | 0.015 | 14 | 3.3 | 0.1 | 1.3 | 0.0015 | 12                                       | 0.002                   | 0.008               | 0.005      | 0.01                 | 0.1 | 0.015 | –   |
| Typical Mechanical Properties after heat treatment                          |      |       |    |     |     |     |        |  |                         |                     |            |                      |     |       |     |
|   |      |       |    |     |     |     |        |  | 0.2%<br>Proof<br>Stress | Tensile<br>Strength | Elongation | Reduction<br>of area |     |       |     |
|   |      |       |    |     |     |     |        |  | MPA                     | MPA                 | %          | %                    |     |       |     |
|   |      |       |    |     |     |     |        |  | Min                     | Min                 | Min        | Min                  |     |       |     |
| Longitudinal  |      |       |    |     |     |     |        |  | 1620                    | 1931                | 10         | 55                   |     |       |     |
| Transverse  |      |       |    |     |     |     |        |  | 1620                    | 1931                | 8          | 45                   |     |       |     |

\* 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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