

## AMS 6514, MARAGING 300 ACCIAIO INOSSIDABILE

Maraging 300 (noto anche come Vascomax® 300) è un acciaio al 18% rinforzato con nichel e cobalto. È un materiale ad altissima resistenza che raggiunge un UTS di 1930 MPA dopo il trattamento termico. È prodotto tramite Vacuum Induction Melting (VIM) seguito da Vacuum Arc Remelting (VAR).

| Specific Gravity                                                                                                                                                                                                         |      |      |      |       |       |      |                        |                  |            |     |          |     |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|-------|-------|------|------------------------|------------------|------------|-----|----------|-----|-----|
| 8.0 g/cm3                                                                                                                                                                                                                |      |      |      |       |       |      |                        |                  |            |     |          |     |     |
| Typical Applications                                                                                                                                                                                                     |      |      |      |       |       |      | Related Specifications |                  |            |     |          |     |     |
| Driveshafts                                                                                                                                                                                                              |      |      |      |       |       |      | AMS 6514               |                  |            |     |          |     |     |
| Gears                                                                                                                                                                                                                    |      |      |      |       |       |      | ASTM A538              |                  |            |     |          |     |     |
| Fasteners                                                                                                                                                                                                                |      |      |      |       |       |      | Mil-S-46850D           |                  |            |     |          |     |     |
| Landing and Takeoff gear                                                                                                                                                                                                 |      |      |      |       |       |      | UNS K93120             |                  |            |     |          |     |     |
| Missile and ejector systems                                                                                                                                                                                              |      |      |      |       |       |      | W.Nr 1.6358            |                  |            |     |          |     |     |
| Torsion springs                                                                                                                                                                                                          |      |      |      |       |       |      |                        |                  |            |     |          |     |     |
| Chemical Composition (Wt %)                                                                                                                                                                                              |      |      |      |       |       |      |                        |                  |            |     |          |     |     |
|                                                                                                                                                                                                                          | C    | Si   | Mn   | P     | S     | Al   | Co                     | Ni               | Mo         | Ti  | Cr       | Cu  | Fe  |
| Min                                                                                                                                                                                                                      | –    | –    | –    | –     | –     | 0.05 | 8.5                    | 18.00            | 4.6        | 0.5 | –        | –   | Bal |
| Max                                                                                                                                                                                                                      | 0.03 | 0.10 | 0.10 | 0.010 | 0.010 | 0.15 | 9.5                    | 19.00            | 5.20       | 0.8 | 0.5      | 0.5 | –   |
| Typical Mechanical Properties after heat treatment                                                                                                                                                                       |      |      |      |       |       |      |                        |                  |            |     |          |     |     |
| 0.2% Proof Stress                                                                                                                                                                                                        |      |      |      |       |       |      |                        | Tensile Strength | Elongation |     | Hardness |     |     |
| MPA                                                                                                                                                                                                                      |      |      |      |       |       |      |                        | MPA              | %          |     | HRC      |     |     |
| Min                                                                                                                                                                                                                      |      |      |      |       |       |      |                        | Min              | Min        |     | Min      |     |     |
| 1862                                                                                                                                                                                                                     |      |      |      |       |       |      |                        | 1930             | 5          |     | 52       |     |     |
| * Every effort has been made to ensure that our technical specifications are accurate. However, technical specifications included within Dynamic Metals Ltd should be used as a guideline only and are subject to change |      |      |      |       |       |      |                        |                  |            |     |          |     |     |

without notice.

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