

18NI300

Metal | SLM

Tool-grade maraging steel for mould inserts and wear parts — aged and ready to use.

Maraging tool steel for parts that must stay hard and dimensionally stable. After ageing it holds around 1100 MPa tensile at 35 HRC, which makes it the usual pick for mould inserts with conformal cooling channels that milling cannot reach. Heat treatment is part of the price.

Mechanical properties

Density	8.1 g/cm ³
Hardness	35 HRC
Yield strength	1050 MPa
Tensile strength	1100 MPa
Elongation at break	10%

Typical applications

- Injection-mould inserts
- Conformal-cooled tooling
- Load cells
- Bearing seats
- Rocket motor casings
- High-load shafts

Maximum part size

280 × 280 × 350mm (larger parts can be split and joined)

Available finishes

E-coated · Electroplated · Glass-bead blasted · Mirror polished · Polished · Powder coated · Sandblasted · Screen printed · Spray painted, gloss · Spray painted, matte · Spray painted, soft-touch · Tapped threads · Tumbled · Welded

Values are indicative and depend on part geometry, build orientation and post-processing. For project-specific requirements contact info@3dexperts.me. Instant price: 3dexperts.me/quote