

# STAINLESS STEEL 17-4PH

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**OLA Product Name: Stainless Steel 17-4PH** 

**Color: Natural (Metallic Gray)** 

**Process: SLM** 

## **MATERIAL SUMMARY**

Tolerance: ±200µm or ±0.2%

Lead Time: 4 days

Maximum Printing Size:320mm × 360mm × 360mm

Notes:

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#### **EVALUATION**

- Advantages
  - 1) High tensile strength up to 1310MPa (after heat treatment).
  - ② High surface hardness, reaching ~41HRC.
  - 3 Good thermal stability, with performance up to 400°C.
- Disadvantages
  - 1) Reduced elongation after heat treatment (<16%).
  - ② Very low or negligible magnetism post-treatment.

## **KEY FEATURES**

17-4PH is a precipitation-hardened stainless steel known for its excellent corrosion resistance, high tensile strength at room temperature, and good weldability. It is widely used in tire mold manufacturing, medical applications, and various industrial tooling scenarios.

#### **APPLICATION SCENARIOS**

It is widely used in tire mold manufacturing, medical applications, and various industrial tooling scenarios.

## **MATERIAL PROPERTIES**

Surface Roughness (Sandblasted): ≥6µm

Hardness (As-Printed): HRB  $94 \pm 3$ 

Hardness (After Heat Treatment): HRB 41 ±

Tensile Strength (As-Printed): 900 ± 100 MPa

Tensile Strength (After Heat Treatment): 1300 ± 100 MPa

Yield Strength (As-Printed): 560 ± 100 MPa

Yield Strength (After Heat Treatment): 1100 ± 100 MPa

Elongation (As-Printed): 28% ± 2

Elongation (After Heat Treatment): 16% ± 2

#### POST-PROCESSING OPTIONS

- Thread tapping
- Sand-blasting