



Image  
3D  
Services & Print

SLM

ACCIAIO 17-4PH

## DATI TECNICI

|                                      |                 |
|--------------------------------------|-----------------|
| Accuratezza (quote <150mm)           | ±0,2/0,3mm      |
| Accuratezza (quote >150mm)           | ±0,05 ogni 25mm |
| Rugosità superficiale                | RA:6/7µm        |
| Rugosità superficiale dopo la stampa | RA <1,6µm       |

### Chemical composition

|    |               |
|----|---------------|
| Fe | Balance       |
| Cr | 15 - 17 %     |
| Ni | 3 - 5 %       |
| Cu | 3 - 5 %       |
| Mn | < 1 %         |
| Si | < 1 %         |
| Mo | < 0,5 %       |
| Nb | 0,15 - 0,45 % |
| C  | < 0,07 %      |

### Physical properties

|                  |                        |
|------------------|------------------------|
| Relative Density | Approx. 99.99%         |
| Density          | 7,80 g/cm <sup>3</sup> |

## PROPRIETA' TERMICHE

|                       |              |
|-----------------------|--------------|
| PROPRIETA' TERMICA    | 550°C        |
| CONDUTTIVITA' TERMICA | 15 +/- W/m°C |

|                                      | Test Method                | As Build     | Heat Treated  |
|--------------------------------------|----------------------------|--------------|---------------|
| Tensile Strength                     | ISO 6892-1:2009(B) Annex D | 675 ± 20 MPa | 1300 ± 50 MPa |
| Yield Strength (R <sub>p</sub> 0.2%) | ISO 6892-1:2009(B) Annex D | 450 ± 20 MPa | 1190 ± 50 MPa |
| Elongation at Break                  | ISO 6892-1:2009(B) Annex D | 15 ± 5%      | 8 ± 2%        |
| Young's Modulus                      | -                          | 170 ± 10 GPa | 180 ± 10 GPa  |
| Hardness                             | DIN EN ISO 6506-1          | 20 - 22 HRC  | 38 - 40 HRC   |