



### ■ Specification

- Metal : Stainless steel 17-4PH
- External shape : Pellet (φ2.5mm, 5 - 7mm)
- Mass : ~ 0.2 g/piece
- Density : ~ 5.6 g/cc
- Fluidity : 100 - 200 g/10 min (MFR)  
(180°C - 10kgf)

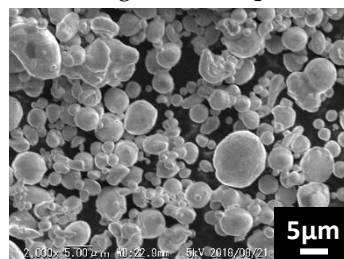
### ■ Characteristics (Sintered component)

- Shrinkage factor :  $\geq 15$  %
- Density :  $\geq 7.5$  g/cm<sup>3</sup>
- Hardness : depending on the heat treatment after sintering
- Elongation : depending on the heat treatment after sintering
- Tensile strength : depending on the heat treatment after sintering
- Surface roughness :  $\leq Ra 0.8 \mu m$

Appearance



SEM image of metal powder



Metal composition (wt.%)

Composition	C	Si	Mn	P	S	Cu	Ni	Cr	Nb	Fe
17-4PH	≤0.07	≤0.5	Max 0.03	Max 0.04	Max 0.03	3.00 ~5.00	3.00 ~5.00	15.5 ~17.5	0.15 ~0.45	Bal.

### ■ Recommend process conditions

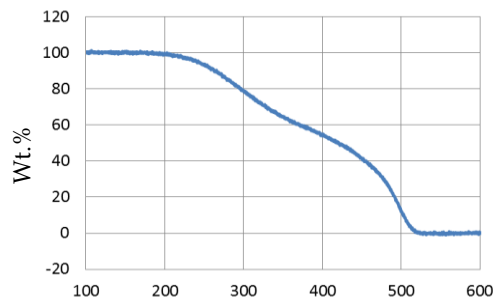
- Molding temperature : 160 - 190°C
- Debinding temperature : Refer the TG graph
- Sintering temperature : 1100 - 1300°C  
(Non-oxidizing atmosphere)

#### Remark

The molding and sintering conditions must be optimized according to product

### ■ Recommended storage conditions

- Temperature : 20 - 30°C
- Humidity :  $\leq 50\%$  RH
- Expiration date : approx. 6 months (Under the recommended conditions)



Thermal gravity analysis (TG) data (Ar atm)

### Disclaimer

- Micro MIM Japan will accept no responsibility for any components quality or the product quality, which are made of this feedstock.
- Micro MIM Japan is not liable for any production process judgement from this feedstock user.
- The above values are standard. Please understand it is not the guaranteed value.

Distributor : Micro MIM Japan Holdings Inc. <https://micro-mim.eu/>

26-1 Ikeda-kitamachi, Neyagawa, Osaka 572-0073 Japan

Head office TEL: +81-72-830-2588 FAX: +81-72-830-2290

Tokyo office TEL: +81-42-851-5092 FAX: +81-42-851-5093

Manufacturer: TAISEI KOGYO CO., LTD.

<http://www.taisei-kogyo.com/>

