Creep Properties of a Powder Metallurgy Disk Superalloy at 700℃

Kaixin Dong1, Chao Yuan1[[1]](#footnote-1)\*), Shuang Gao1, Chonglin Jia2, Jianting Guo1 and Changchun Ge2

*1. Institute of Metal Research, Chinese Academy of Sciences,* *Shenyang 110016, China*

*2. School of Materials Science and Engineering, University of Science and Technology Beijing,* *Beijing 100083, China*

# Notes

SI 1. Statistics of Grain Size

Table SⅠ. Statistics of grain size (μm)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N total | Mean | Standard Deviation | Sum | Minimum | Median | Maximum |
| 146 | 57.86 | 35.68 | 8447.24 | 4.45 | 51.15 | 169.56 |



Figure S1. Frequency count of grain size (μm)

SI 2. Statistics of Primary γ' Precipitates

Table SⅡ.Statistics of primary γ' precipitates (μm)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N total | Mean | Standard Deviation | Sum | Minimum | Median | Maximum |
| 307.00  | 0.93  | 0.43  | 284.81  | 0.29  | 0.86  | 3.92  |



Figure S. Frequency count of primary γ' precipitates (μm)

SI 3. Statistics of Secondary γ' Precipitates

Table SⅢ.Statistics of secondary γ' precipitates (μm)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N total | Mean | Standard Deviation | Sum | Minimum | Median | Maximum |
| 125.00 | 0.20 | 0.04 | 24.98 | 0.12 | 0.20 | 0.30 |



Figure S3. Frequency count of secondary γ' precipitates (μm)

SI 4. Statistics of Tertiary γ' Precipitates

Table SⅣ. Statistics of tertiary γ' precipitates (nm)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N total | Mean | Standard Deviation | Sum | Minimum | Median | Maximum |
| 74.00 | 34.92 | 8.90 | 2584.37 | 23.10 | 30.75 | 67.49 |



Figure S4. Frequency count tertiary γ' precipitates (nm)

1. \* Address all correspondence to this author.

ychao@imr.ac.cn [↑](#footnote-ref-1)