

**LEMBAR  
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW  
KARYA ILMIAH : PROSIDING**

Judul Karya Ilmiah : A review of low-cycle fatigue of Alloy 617 for use in VHTR components: Experimental outlook

Jumlah Penulis : 7 Orang

Status Pengusul : Penulis ke-6

Identitas Prosiding : a. Judul Prosiding : MATEC Web of Conferences, The 2nd International Joint Conference on Advanced Engineering and Technology (IJCAET 2017) and International Symposium on Advanced Mechanical and Power Engineering (ISAMPE 2017)

b. ISBN/ISSN : eISSN: 2261-236X

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d. Penerbit/Organiser : EDP Sciences

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Semarang, 14 Mei 2019

Reviewer 2

Rusnaldy, S.T., M.T., Ph.D.  
NIP. 197005201999031002  
Unit Kerja : T. Mesin FT UNDIP

Reviewer 1

Dr. Agus Suprihanto, S.T, M.T.  
NIP. 197108181997021001  
Unit Kerja : Teknik Mesin FT UNDIP

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Semarang, 14 Mei 2019

Reviewer 1

  
Dr. Agus Suprihanto, S.T, M.T.  
NIP. 197108181997021001  
Unit kerja : Teknik Mesin FT UNDIP

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Rusnaldy, S.T., M.T., Ph.D.

NIP. 197005201999031002

Unit kerja : Teknik Mesin FT UNDIP

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Volume 159, 30 March 2018, Article number 02049  
2nd International Joint Conference on Advanced Engineering and Technology, IJCAET 2017 and International Symposium on Advanced Mechanical and Power Engineering, ISAMPE 2017; Bali; Indonesia; 24 August 2017 through 26 August 2017; Code 135617

## A review of low-cycle fatigue of Alloy 617 for use in VHTR components: Experimental outlook [\(Conference Paper\)](#) [\(Open Access\)](#)

Dewa, R.T.<sup>a</sup>, Park, J.-H.<sup>a</sup>, Kim, S.-J.<sup>a</sup>, Kim, W.-G.<sup>b</sup>, Kim, E.-S.<sup>b</sup>, Haryadi, G.D.<sup>c</sup>, Ekaputra, I.M.W.<sup>d</sup>

<sup>a</sup>Pukyong National University, Department of Mechanical Design Engineering, Busan, 48547, South Korea

<sup>b</sup>Korea Atomic Energy Research Institute (KAERI), Daejeon, 34057, South Korea

<sup>c</sup>Diponegoro University, Department of Mechanical Engineering, Semarang, 50275, Indonesia

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### Abstract

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The effect of strain range and temperature on the low-cycle fatigue behaviour and microstructure change during cyclic deformation of Alloy 617 for use in very high temperature gas-cooled reactor components were studied at elevated temperature starting from ambient condition. Increasing the strain range and the temperature was noticed to reduce the fatigue resistance of nickel-based Alloy 617 due to facilitating the transformation behavior of the carbides in the grain interior, precipitates along the grain boundary, and oxidation behavior inducing surface connected precipitates cracking. Initial hardening behavior was observed at room temperature condition during cyclic due to the pile-up dislocation of micro-precipitates. The grain size was also taking a role due to the formation of an obstacle in the matrix. In the high temperature regime, the alloy 617 was found to soften for its entire life due to the fast recovery deformation, proved by its higher plasticity compared with lower temperature. The deformation behavior also showing high environmentally assisted damage. Oxidation behavior was found to become the primary crack initiation, resulting in early intergranular surface cracking. © The Authors, published by EDP Sciences, 2018.

### SciVal Topic Prominence

Topic: Superalloys | Alloys | Creep strength

Prominence percentile: 89.372

### Indexed keywords

Engineering controlled terms:

- Carbides
- Cracks
- Deformation
- Fatigue of materials
- Gas cooled reactors
- Grain boundaries
- Grain size and shape
- Nickel alloys
- Piles
- Surface defects

Engineering uncontrolled terms

- Deformation behavior
- Elevated temperature
- High-temperature regime
- Microstructure changes
- Pile-up dislocations
- Room-temperature conditions
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Low cycle fatigue, deformation and fracture behaviour of Inconel 617 alloy

Rao, C.V. , Srinivas, N.C.S. , Sastry, G.V.S. (2019) *Materials Science and Engineering A*

Low cycle fatigue behavior of alloy 800h base metal and weldments at 700

Kim, S.-J. , Dewa, R.T. , Kim, W.-G. (2018) *American Society of Mechanical Engineers, Pressure Vessels and Piping Division (Publication) PVP*

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Research and Development		
Korea Atomic Energy Research Institute	NRF-2016M2A8A2902895	

### Funding text

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- 1 Coffin, L.F.  
(1968) *Experimental Mechanics*, 8, p. 5.
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(2015) *Phil. Trans. R. Soc. A*, p. 373.
- 3 Kim, S.J., Dewa, R.T., Kim, W.G., Kim, M.H.  
Cyclic Stress Response and Fracture Behaviors of Alloy 617 Base Metal and Weld Joints under LCF Loading ([Open Access](#))  
(2015) *Advances in Materials Science and Engineering*, 2015, art. no. 207497. Cited 9 times.  
<http://www.hindawi.com/journals/amse/>  
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□ 6 Shankar, V., Kumar, A., Mariappan, K., Sandhya, R., Laha, K., Bhaduri, A.K., Narasaiah, N. (2017) *Int. J. of Fatigue*, p. 100.

□ 7 Dewa, R.T., Kim, S.J., Kim, W.G., Kim, E.S.  
Effect of strain range on the low cycle fatigue in alloy 617 at high temperature  
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(2017) *Metals*, 7 (2), art. no. 54. Cited 8 times.  
<http://www.mdpi.com/2075-4701/7/2/54/pdf>  
doi: 10.3390/met7020054

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□ 8 Rao, K.B.S., Schiffers, H., Schuster, H., Nickel, H. (1988) *Metallurgical Trans. A*, p. 19.

🔍 Kim, S.-J.; Pukyong National University, Department of Mechanical Design Engineering, Busan, South Korea;  
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August 24-26, 2017  
Bali, Indonesia

Proceedings editor(s):

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Bagus Hario Setiadji, Ph.D  
Dr. Han Ay Lie  
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Volume 159 (2018)

The 2<sup>nd</sup> International Joint Conference on Advanced Engineering and Technology (IJCAET 2017) and International Symposium on Advanced Mechanical and Power Engineering (ISAMPE 2017)

Bali, Indonesia, August 24-26, 2017

B.H. Setiadji, A.L. Han, A. Widodo, J.D. Setiawan, O. Kurdi and J.U.D. Hatmoko (Eds.)

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