

**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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- Alamat Artikel : https://www.matec-conferences.org/articles/mateconf/pdf/2018/18/mateconf_ijcaet-isampe2018_02049.pdf
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(beri ✓ pada kategori yang tepat) *Prosiding* Forum Ilmiah Nasional

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d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	8,00	8,00	8,00
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Nilai Pengusul = (40% x 27,50)/6 = 1,83			

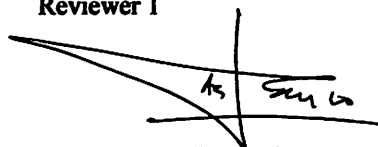
Semarang, 14 Mei 2019

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

**LEMBAR
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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

**LEMBAR
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c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9,00		8,00
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Total = (100%)	30,00		27,00
Nilai Pengusul = (40% x 27,00)/6 = 1,80			

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Semarang, 14 Mei 2019

Reviewer 2

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

NIP. 197005201999031002

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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.^a, Park, J.-H.^a, Kim, S.-J.^a ✉, Kim, W.-G.^b, Kim, E.-S.^b, Haryadi, G.D.^c, Ekaputra, I.M.W.^d 👤

^aPukyong National University, Department of Mechanical Design Engineering, Busan, 48547, South Korea

^bKorea Atomic Energy Research Institute (KAERI), Daejeon, 34057, South Korea

^cDiponegoro 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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- Very-high-temperature gas-cooled reactors

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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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Funding sponsor	Funding number	Acronym
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Research and Development		
Korea Atomic Energy Research Institute	NRF-2016M2A8A2902895	

Funding text

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(1968) *Experimental Mechanics*, 8, p. 5.
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(2015) *Phil. Trans. R. Soc. A*, p. 373.
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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/>
doi: 10.1155/2015/207497
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Effect of strain range on the low cycle fatigue in alloy 617 at high temperature
([Open Access](#))

(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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The 2nd International Joint Conference on Advanced Engineering and Technology (IJCAET) and International Symposium on Advanced Mechanical and Power Engineering (ISAMPE)
August 24-26, 2017
Bali, Indonesia

Proceedings editor(s):

Bagus Hario Setiadji, Ph.D
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Volume 159 (2018)

The 2nd 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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