



Title Written with Times New Roman Font 12 pt, capital letters at the beginning of the word and then all lowercase (Bold)

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Abstract

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Keywords:

Shallow cryogenic heat treatment
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S355J2 Steel

This article is a writing template for the Arc Welding Journal using MS-Word. The abstract must contain a little background, research objectives, research methods, and research results in about 250 words with font Times New Roman 10. Lots pages 7-12 sheets in A4-two-column format. Before writing, please adjust the margins of your article top/bottom/left/right, sequentially: 2/2/1.5/1.5 cm.

1. Introduction

Articles must be written in accordance with the JOURNAL OF WELDING TECHNOLOGY format. Writing foreign terms must be written in italics. The orientation is Portrait with two columns (number of columns = 2. Paper size) is letter with Width = 21.59 cm and Height = 27.94 cm. Layout with Header = 1.25 cm and Footer = 1.54 cm. Vertical alignment is Top. Decimal writing rules in Arc Welding Journal follow Mathematics writing rules).

Articles should contain articles that contain 1. Introduction, 2. Research Methods (may include analysis, architecture, methods used to solve problems, implementation), 3. Results and Discussion, 4. Conclusions, 5. Acknowledgments (if any) and References.

The contents of the introduction should contain: (1). Background, (2). A brief literature review (3). The reason for this research and (4). The purpose of the study.

If the review / study of literature must be explained in detail and length then a separate subtitles may be made in the title no. 2. While the title of the research method and the subsequent titles will follow the serial number of the title after the serial number of the review / study literature. how to write formulas shown Eq.1 and 2

Fr = (V0 / sqrt(X0*sigma0)) (1)

and

Re = (V0*X0 / v) (2)

where V0 is, X0 is

2. Research Methods

Explain the research method used. Explain briefly, but still accurately such as size, volume, replication and workmanship techniques. The new method must be

explained in detail so that other researchers can reproduce the experiment. While established methods can be explained by picking out references.

2.1. Script Length (subtitles in bold).

The manuscript is written in A4 paper size with a maximum number of 12 pages, including tables and figures, and with reference to the writing procedures as compiled in this paper.

HEADING

Sub-Heading Rank 1 (Bold)

Sub-Heading Per level 2 (Italic Bold)

- The main body of the research article contains: (1) Introduction (includes background, a little literature review, and research objectives); (2) Research Methodology; (3) Results and Discussion; and (4) Conclusions.

- Tables and figures must be given a caption (title / description) with sequential numbering. The table caption is placed on the left table, while the image is placed below the left and the outline of the image is removed.

Table 1. Example table.

Table with 3 columns: An example of a column heading, Column A (t), Column B (T). Rows include 'And an entry', 'And another entry', and 'And another entry'.

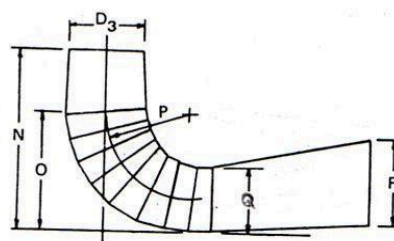


Fig. 1. Sample image

- The equation is written with sequential numbering placed to the right. If the equation is too long use splitting. Shown Eq.1

$$N_s = \frac{n \times \sqrt{N}}{(H)^{5/4}} \quad (1)$$

- Text format is 2 (two) columns, width of each column is 7 cm with column spacing of 1 cm.

- Footnotes are numbered after the phrase / term (1) to be explained. Footnotes which are word / phrase descriptions written in Times New Roman 8 font, black.

3. Results and Discussion.

The series of research results is based on a logical sequence / arrangement to form an explanation. The contents indicate facts / data and do not discuss the results. Can use Tables and Numbers but not repeatedly repeat the same data in figures, tables and text. To further clarify the description, you can use subtitles.

Discussion is the basic explanation, relationship and generalization shown by the results. The description answers the research question. If there are doubtful results then display it objectively.

4. Conclusions.

In conclusion there must be no reference. The conclusion contains the facts obtained, enough to answer the problem or research objective (do not be a discussion again); State the possible applications, implications and speculations accordingly. If needed, provide suggestions for further research.

References.

All references to cited material must be placed at the end of the manuscript, namely in the Bibliography. Quotations (Citation) written in writing or text must be numbered. The number given in accordance with the order in the text and corresponds to the number in the reference used and written at the end of the published document. citations of at least 20 references (international article). Standards for writing citations on IEEE can be explained briefly as follows:

- Each number in the quotation must be enclosed in square brackets ([..]) parallel to the text, before the quotation marks, and spaces before the use of square brackets.

- It is not necessary to include either the author or the date of the reference unless it is relevant to the text used. It should be written as follows "in reference [26] ..."

It is recommended to write a library using Mendeley or similar software to facilitate citation.

Writing in the Reference as follows:

[1] P. Kah, *Advancements in Intelligent Gas Metal Arc Welding Systems: Fundamentals and Applications*.

Elsevier, 2021.

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