IMPACT: International Journal of Research in Engineering & Technology
ISSN (P): 2347–4599; ISSN (E): 2321–8843
Vol. 8, Issue 12, Dec 2020, 9–14

STUDY ON TENSILE CHARACTERISTICS OF BASIC FLUX COATED ELECTRODE FOR MANUAL METAL ARC WELDING

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Received: 17 Dec 2020 **Accepted:** 19 Dec 2020 **Published:** 31 Dec 2020

ABSTRACT

Manual metal arc welding is a common type welding which is used everywhere in fabrication industries. The flux uses for electrode has a vital role in its tensile strength characteristics besides its main function. This work focus on the effect of basic flux coated electrodes in weld strength. The fifteen type basic flux coated electrode are manufactured and used for MMAW. Flux with BI of 3.38 is shown maximum tensile strength of 740N/mm².Tensile strength is improved with basicity index of flux. BI plays important role in the achieving even better mechanical properties.

KEYWORDS: *Manual Metal Arc Welding (MMAW), Basicity Index (BI), Tensile Strength*