

# 입열에 따른 박판 Electro Gas 용접부의 물성에 대한 연구

## Properties of electro gas welds of thin plate made by different welding heat input

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**ABSTRACT** The properties of electro gas welds made by different welding heat input were evaluated. Welding heat inputs for EGW were controlled by width of gaps which were maintained from 6mm to 20mm. The chemical composition, micro-structure and charpy impact test at -55℃ were performed. The results are summarized as follows;

- 1) Chemical composition of weld metal showed similar over the test welding heat input.
- 2) Microstructure of weld metal was mostly consist of acicular ferrite regardless of welding heat input.
- 3) Absorbed impact energy on the weld metal and fusion line were reduced with increasing of welding heat input.