

## Ultrasonic Identification of Weld Defects Made by Electrofusion Welding on Plastic Pipelines

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In this article is described, how can ultrasonic method Phased Array be used for inspection of weld joints made by electrofusion welding on plastic pipelines. For purpose of testing and to develop a proper setup, several artificially made defects were created in the weld area to verify, if this method can be successfully used for this application, since standards for testing of plastic pipelines have no specific regulation for this method. Therefore we are trying to propagate this method for gas and water transport industry, because it can severely reduce risks of accidents caused by unidentified defects, which can occur in welded joints.

**Keywords:** ultrasonic defectoscopy, phased array, plastic pipelines, gas industry

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