JRC Dataset

Impact test data for A533B ar material at -2 °C and a notch impact energy of 146 J

Description:
The Network for Evaluating Structural Components (NESC) coordinated extensive materials testing and fracture analyses performed by a group of twenty European organizations. The NESC-IV project addressed the transferability of fracture toughness data from laboratory specimens to applications that assess the integrity of reactor pressure vessels subjected to upset and normal loading transients. The coordinated experimental and analytical program drew from major elements of the biaxial features testing program conducted by the Heavy Section Steel Technology Program at the Oak Ridge National Laboratory. In this context, the JRC performed impact and tensile tests in the temperature range -90 to 80°C on type A533B ferritic steel.

Contributors:
- Taylor, Nigel nigel.taylor@ec.europa.eu
- Nilsson, Karl-Fredrik karl-fredrik.nilsson@ec.europa.eu
- Minnebo, Philip philip.minnebo@ec.europa.eu

How to cite:
Taylor, Nigel; Nilsson, Karl-Fredrik; Minnebo, Philip(2014): Impact test data for A533B ar material at -2 °C and a notch impact energy of 146 J. European Commission, Joint Research Centre (JRC) [Dataset] doi:10.5290/4700053
PID: http://data.europa.eu/89h/jrc-odin-4700053

Keywords:
Elevated temperature material properties

Related resources:
Data access
MatDB XML distribution
MatDB XML distribution
https://odin.jrc.ec.europa.eu/alcor/Flex?entity=DOI&p;_version=null&action;=displayXML&p;_xmlType=data&p;_RN5=47 00053

Additional information:
Last Modified: 2017-07-19
Issue date: 2014
Landing page: https://doi.org/10.5290/4700053
Geographic area: European Union
Language: English
Data theme(s): Energy; Science and technology
EuroVoc domain(s): 36 SCIENCE; 64 PRODUCTION, TECHNOLOGY AND RESEARCH; 66 ENERGY
Identifier: http://data.europa.eu/89h/jrc-odin-4700053
Digital Object Identifier: 10.5290/4700053