

## Dataset collection

### ODIN Small punch test data for Gr. 91 steel

#### Description:

In the framework of its institutional project on Gen IV nuclear reactors, the JRC-IET performs pre-normative materials qualification research within the work package PreMaQ. The activities focus on evaluation methods like ultrasonic fatigue, neutron diffraction, thermoelectric power measurements, x-ray tomography, small punch creep and fracture tests, and nano-indentation with the aim to establish or prepare international standards. The current data set belongs to a small punch tensile/fracture mechanics test on the ferritic/martensitic steel Grade 91.

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#### Landing page:

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#### Datasets:

- [Small punch tensile/fracture test data for Gr. 91 material at -150 °C and a displacement rate of .005 mm/s \[jrc-odin-1900100\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at -150 °C and a displacement rate of .05 mm/s \[jrc-odin-1900101\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at -150 °C and a displacement rate of .5 mm/s \[jrc-odin-1900102\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at -196 °C and a displacement rate of .5 mm/s \[jrc-odin-1900103\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at -170 °C and a displacement rate of .5 mm/s \[jrc-odin-1900104\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at -100 °C and a displacement rate of .005 mm/s \[jrc-odin-1900105\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at -60 °C and a displacement rate of .5 mm/s \[jrc-odin-1900106\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at -130 °C and a displacement rate of .5 mm/s \[jrc-odin-1900107\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at -60 °C and a displacement rate of .005 mm/s \[jrc-odin-1900108\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at -132 °C and a displacement rate of .005 mm/s \[jrc-odin-1900109\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at 23 °C and a displacement rate of .005 mm/s \[jrc-odin-1900110\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at 23 °C and a displacement rate of .5 mm/s \[jrc-odin-1900111\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at -100 °C and a displacement rate of .5 mm/s \[jrc-odin-1900112\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at -20 °C and a displacement rate of .005 mm/s \[jrc-odin-1900113\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at -120 °C and a displacement rate of .5 mm/s \[jrc-odin-1900114\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at -196 °C and a displacement rate of .005 mm/s \[jrc-odin-1900115\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at -120 °C and a displacement rate of .005 mm/s \[jrc-odin-1900116\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at -20 °C and a displacement rate of .5 mm/s \[jrc-odin-1900117\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at -170 °C and a displacement rate of .005 mm/s \[jrc-odin-1900118\]](#)
- [Small punch tensile/fracture test data for Gr. 91 material at -170 °C and a displacement rate of .5 mm/s \(repeat test\) \[jrc-odin-1900119\]](#)

- Small punch tensile/fracture test data for Gr. 91 material at -196 °C and a displacement rate of .005 mm/s (repeat test) [jrc-odin-1900120]
- Small punch tensile/fracture test data for Gr. 91 material at -142 °C and a displacement rate of .005 mm/s [jrc-odin-1900121]
- Small punch tensile/fracture test data for Gr. 91 material at -135 °C and a displacement rate of .005 mm/s [jrc-odin-1900122]
- Small punch tensile/fracture test data for Gr. 91 material at -142 °C and a displacement rate of .005 mm/s (repeat test) [jrc-odin-1900123]
- Small punch tensile/fracture test data for Gr. 91 material at -142 °C and a displacement rate of .005 mm/s (second repeat test) [jrc-odin-1900124]
- Small punch tensile/fracture test data for Gr. 91 material at -141 °C and a displacement rate of .005 mm/s [jrc-odin-1900125]
- Small punch tensile/fracture test data for Gr. 91 material at -142 °C and a displacement rate of .005 mm/s (third repeat test) [jrc-odin-1900126]
- Small punch tensile/fracture test data for Gr. 91 material at -141 °C and a displacement rate of .005 mm/s (repeat test) [jrc-odin-1900127]
- Small punch tensile/fracture test data for Gr. 91 material at -196 °C and a displacement rate of .5 mm/s (repeat test) [jrc-odin-1900128]