

## Alloy with large elastic strain over 4%

Elastic alloy with Young's modulus less than 25 GPa which remains in the elastic range even when 600 Mpa stress is applied



### Overview

Superelastic alloy can instantly return to its original state after plastic deformation when the force is removed. However, a repeated plastic deformation leaves a residual strain that cannot be ignored.

This invention is about an elastic alloy having a large elastic strain over 4% and Young's modulus less than 25 Gpa, which remains in the elastic range even a stress up to 600 Mpa is applied.

### Product Application

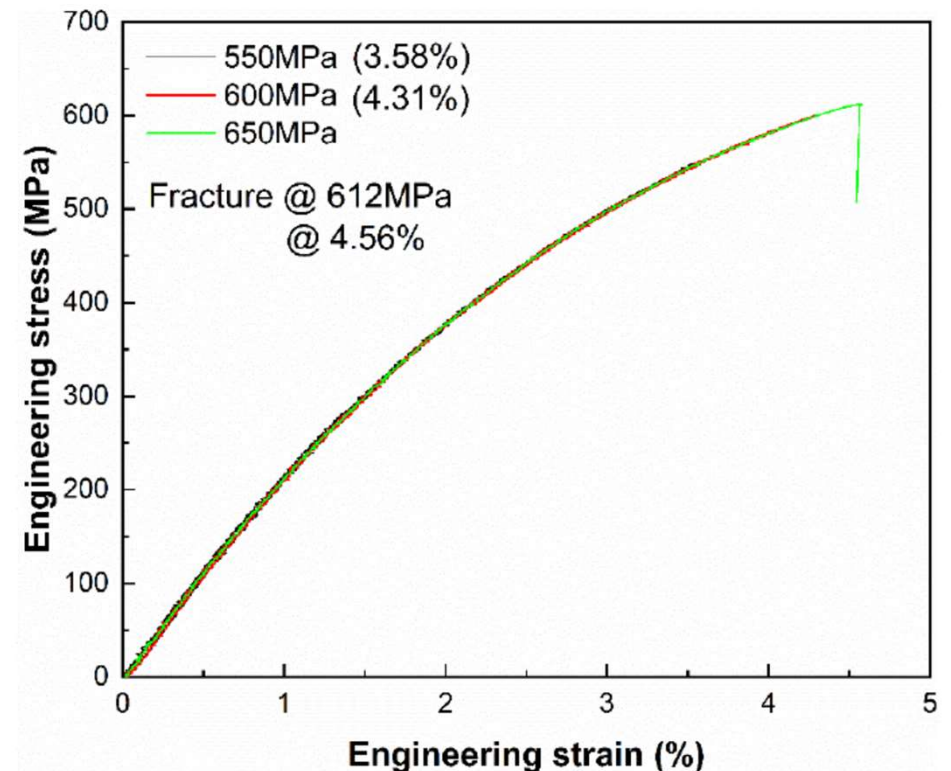
There is no residual strain due to wide elastic range. Following applications could be expected:

- Spring
- Structural material
- Connector material

### IP Data

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### Stress-strain curve



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