

Ruscaloy[®] wire

(Ru-based alloy single crystal wire)

- Deformable Ru-based wire
- High-efficient, and long-life resistive heating element in vacuum atmosphere

Ruscaloy

Product Information



Fig.1: Photographs of the *Ruscaloy* wire.

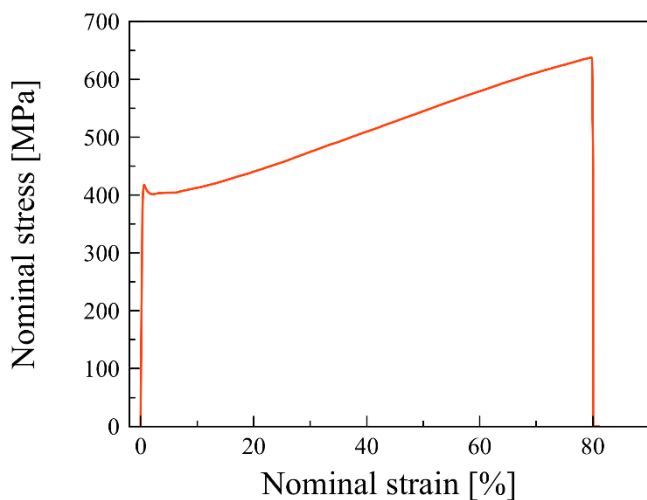


Fig.3: Room-temperature tensile behavior of single-crystal *Ruscaloy* wire.

Outline

Ruscaloy wire—a ruthenium-based, heat-resistant alloy. The single-crystal grade combines easy room-temperature cold working with high tensile strength and high electrical resistivity, ideal for high-efficiency vacuum resistance heaters and high-temperature fixture/tie applications. Its outstanding chemical stability allows use even in strong acids (HCl, boiling H₂SO₄, heated HF, and so on).

Specification

Diameter [mm]	0.5~2 mm
Tolerance [mm]	At least ± 0.005
Length [m]	~10 m (ϕ -dependent)
Atmosphere	Vacuum & Inert
Temperature [°C]	~ 2000
Electrical resistivity [$\mu\Omega\text{cm}$]	~63

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